

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

FARMER

**SEED & NURSERY
COMPANY
FARIBAULT, MINN.**

**1948
60th Anniversary
CATALOG**

New

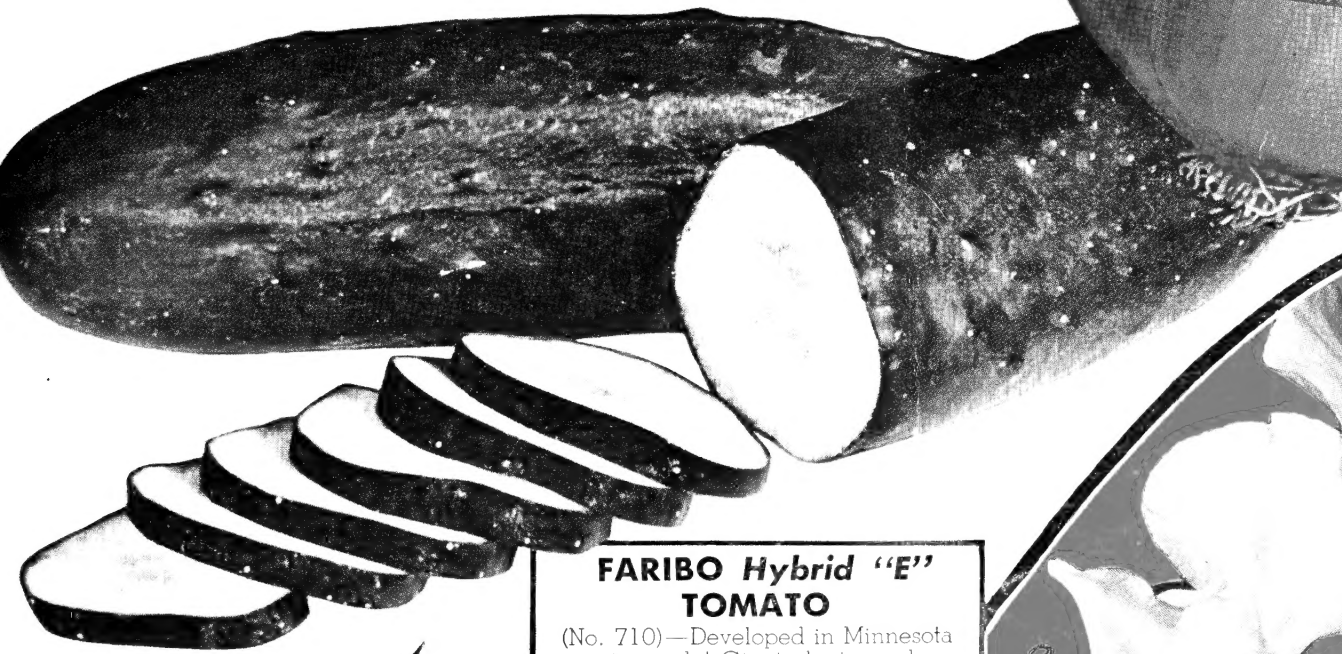
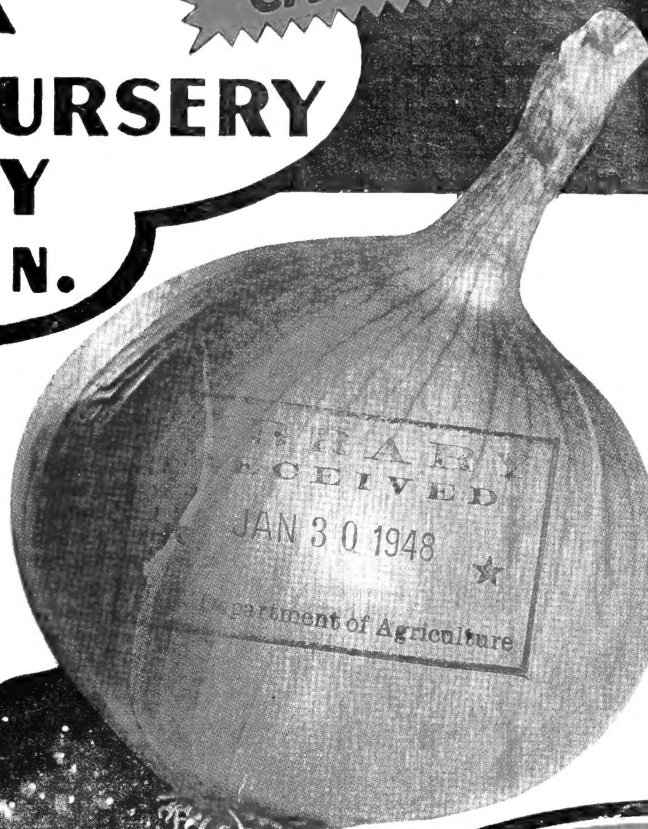
FARIBO Hybrid CUCUMBER

(No. 282)—Get more and better "cukes," earlier, from vigorous, disease resistant, HYBRID plants! Thin skinned, blunt ended fruits are ideal pickle type, make perfect 8 to 9 inch slicers when full grown. Developed by Dr. A. E. Hutchins (U. of Minn.) and F. S. & N. Co. **Pkt. 25¢.**

New

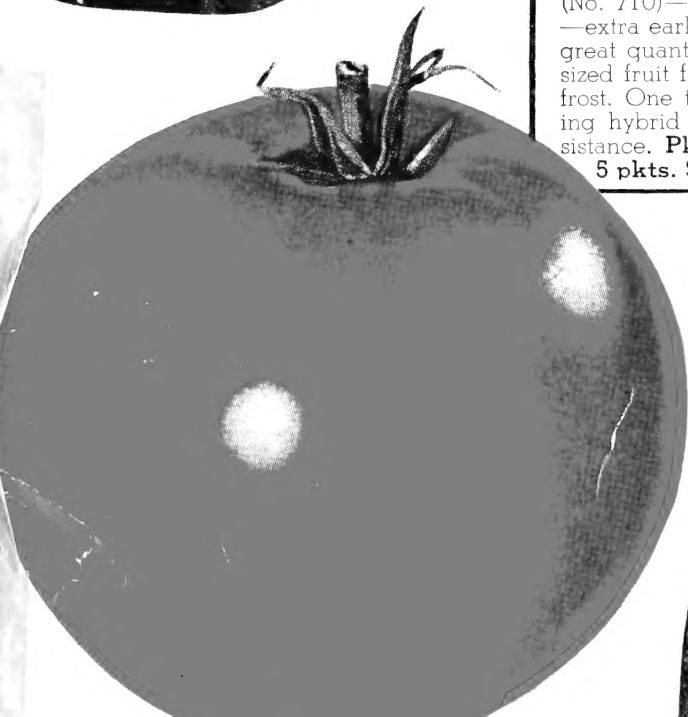
MICHIGAN STATE ONION

(No. 411)—A "LONG KEEPING" Yellow Sweet Spanish from Mich. State College. The splendid quality of regular Sweet Spanish PLUS ability to keep in perfect condition for 6 months! Enjoy big, firm, SWEET onions in April! **Pkt. 20¢, Oz. \$1.00.**



FARIBO Hybrid "E" TOMATO

(No. 710)—Developed in Minnesota—extra early! Giant plants produce great quantities of smooth, medium sized fruit from mid-July 'till killing frost. One third more yield—amazing hybrid vigor, strong blight resistance. **Pkt. (30 seeds) for 25¢, 5 pkts. \$1.00.**



NEW CUTHBERTSON SWEET PEAS

(No. 1889)—(Mixed Colors.) The new "heat resistant" strain described in magazines. Huskier vines, extra long stems, sparkling colors! The mammoth blossoms appear early, and over a long blooming season. They withstand extreme heat (pg. 58). **Pkt. 20¢, 3 pkts. 50¢. (Single colors, pg. 58).**



★★★
**Small
 Fruits**
 FOR THE
SMALL YARD
 Delicious
 Fruit 1 Year
 After Planting

NEW
*Hardy
 Bush*
CHERRIES

Dakota
 Amber



*Indian
 Summer*
RASPBERRIES



2 CROPS
 IN ONE SEASON



Enjoy this luscious fruit in season, and again long after they're off the market! Loads of large, conical, super quality berries appear late in June (a week before others are ripe) and continue well into July. In mid September comes the real treat,—a fall crop, producing until frost! The ideal home garden berry.

Heavy 2 yr. plants: 6 for \$1.25. 12 for \$2.25. 25 for \$3.90, postpaid.

(1 yr. plants and quantity prices, page 31)



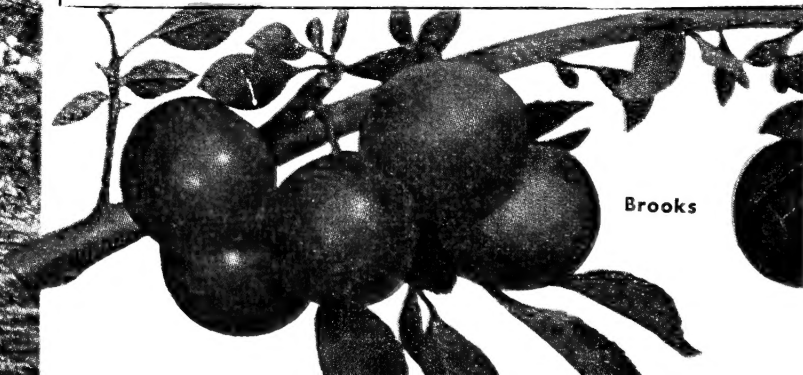
DAKOTA AMBER CHERRY

Here's a brand new bush cherry that's especially sweet to eat right from the tree! Big bunches of delicious golden amber fruits on dwarf, symmetrical bushes, 4 to 5 feet tall. Plants are a mass of snow white blooms early in spring, with attractive, glossy dark green foliage, followed by heavy loads of fruit as large as shown at left, often bear 2nd year. Makes tasty sauce, jams jellies of beautiful color. Extremely hardy. We suggest planting a Brooks Cherry also, as a pollinator. 18 to 24 in. plants, \$1.45 each, 2 to 3 ft. plants \$1.65 each. By Exp. not ppd.

BROOKS CHERRY

Another new and better bush cherry developed in Canada. Extremely hardy, vigorous, and productive. Fruit is often 1 inch long, glossy purplish black, firm, juicy, tender, of splendid quality. Makes delicious sauce, pies or preserves. Plant a Dakota Amber also for pollination. 18 to 24 in. plants, \$1.45 each, 2 to 3 ft. plants, \$1.65 each. By Exp. not ppd.

PURPLE & GOLD 3 NEW BUSH CHERRIES \$3⁹⁵
 CHERRY OFFER 2 Dakota Amber, 1 New Brooks
 18-24 inch plants, by Exp., nppd.



Brooks

BLUE FIGURE PRICE LIST

Prices subject to market changes, stocks being unsold; bags included in weight.

THE FARMER SEED & NURSERY CO. desires satisfaction for every customer. Complaints, if justified, will be adjusted to the amount remitted. However, since the results from seeds, trees, bulbs, or plants are subject to hazards of weather, climate, soil and cultural practices, over which we have no

control, THE FARMER SEED & NURSERY CO. will not be in any way responsible for the crop. Our liability, in all instances, is limited to the purchase price of the seed. If the purchaser does not accept goods on these terms, they are to be returned at once. All prices are F.O.B. Faribault, unless marked "ppd."

FARMER SEED & NURSERY CO. FARIBAULT, MINN. Jan. 12, 1948

ORDER EARLY! Many items are short this year. Transportation service is slower, due to overloaded railroads. || **NO PART-PAYMENT** Stocks move so rapidly it is impossible to accept part-payment orders for deferred shipment.

EXCEPTIONAL LOT OFFERS FOR EARLY ORDERS

LOT "VIGOR" HYBRID CORN

This "Special Lot" has exactly the same inheritance, germination and purity as our No. 1 Certified Seed. It consists of the thick kernels, graded from our Certified Hybrids. These "thicks" are evenly graded, and germinate 90% or better. Nothing finer for drilling, for silage, or for "hogging off." Use your medium or small plates.

A properly proportioned blend of selected varieties, which has proven very popular. These blends provide maximum insurance against periods of adverse weather, since there is enough variation in maturity so that only a part of the crop reaches a critical period at any one time.

Group A—early maturity blend (85 to 100 days)
Group B—late maturity blend (105 to 115 days)

Your Choice ONLY \$4.50 per BU.
Group A or B

LOT "WINTER KING"

EASTERN WASHINGTON ALFALFA

Bright, plump, clean U. S. Verified Origin Seed, 99.50% purity, 90% Germination including hard seeds. No noxious weeds. Seed of this new origin is distinguished by its super-fine purity. Produced under dry land conditions at 2000 ft. elevation. Temperatures in this arid section, east of the Cascades, vary from 110 degrees above, to 15 below zero, the same climate in which Idaho seed is produced. Only 10,000 lbs. in this Special Lot, so order early!

BU. only \$30.25

100 lbs. \$50.00

LOT "CREAM CHECK"

MAMMOTH RED CLOVER

Bright, plump, hardy Northern Minn. grown Mammoth Clover 96% pure (Contains 3.5% Sweet Clover), 90% Germination including hard seeds. Tests indicate no noxious weeds. Mammoth Clover is far short of demand this year, and this lot will satisfy the most critical farmer for hay, pasture, and green manure purposes. There are only 4000 lbs. in this lot and it will be quickly sold out, so order early.

1/2 BU. \$20.75

BU. only \$41.15

NORTHERN GROWN CLOVER

SUPER-HARDY—FREE FROM NOXIOUS WEEDS

(Bu. 60 lbs.)	Prices include sacks	% Purity	Peck	Bu.	100 Lbs.
MEDIUM RED CLOVER					
Master Farmer, Minn. Grown.....	99.00	\$10.50	\$41.50	\$69.00	
NEW MIDLAND RED CLOVER (See page 63)					
Idaho Certified Blue Tag (5 lbs. \$4.65 ppd.)	99.54	11.50	45.15	75.00	
Idaho Certified Red Tag (5 lbs. \$4.50 ppd.)	99.42	11.15	43.95	73.00	
MAMMOTH CLOVER					
Master Farmer, Minn. Grown.....	99.30	10.95	43.35	72.00	
WHITE DUTCH CLOVER (5 lbs. \$4.75 ppd.)		10.50			
NEW LADINO CLOVER (See page 63)					
Calif. Approved (1 lb. \$3.10, 5 lbs. \$15.00 ppd.)		41.25			
ALSIKE CLOVER					
Master Farmer, Minn. Grown.....	98.00	8.45	33.15	55.00	
SWEET CLOVER, Common Biennial					
(See page 64)					
Mostly Dwarf Yellow Blossom Type.....	99.50	3.25	12.50	20.50	
Mostly Tall White Blossom Type.....	99.50	3.30	12.75	21.00	
Mostly Dwarf White, Grundy Co. Type.....	99.50	3.30	12.75	21.00	
SWEET CLOVER, New Madrid Biennial.....	99.61	4.75	18.60	30.80	
SWEET CLOVER, Hubam Annual White.....	99.65	3.50	13.65	22.50	

ALFALFAS—U. S. VERIFIED ORIGIN

(Certified and State Sealed Alfalfa is put in 30-lb. and 60-lb. bags.)

Prices include sacks	% Purity	Peck	Bu.	100 Lbs.
DAKOTA NO. 12 (Montana Grown)				
Master Farmer.....	99.65	\$ 8.00	\$31.65	\$52.50
DAKOTA NO. 12 (Idaho Grown)				
Master Farmer.....	99.86	8.10	32.00	53.00
DAKOTA NO. 12 (Eastern Washington Grown)				
Master Farmer.....	99.50	7.80	30.75	51.00
COSSACK (Idaho Grown)				
Master Farmer.....		8.80	34.65	57.50
GRIMM (Montana Grown)				
Certified Blue Tag.....	99.65	9.60	37.95	63.00
GRIMM (Montana Grown)				
Not for sale in Wisconsin				
Master Farmer.....	99.50	8.15	32.25	53.50
NEW RANGER (California & Montana Grown)				
Certified Blue Tag (See page 62)	99.56	18.75	75.00	125.00
(5 lbs. for \$6.90 postpaid)				
LADAK (Montana Grown)				
Certified Blue Tag.....	99.87	9.90	39.15	65.00
Master Farmer (Not for Sale in Wisconsin)	99.12	8.45	33.15	55.00

HARDY GRASSES

Prices include sacks	25 Lbs.	50 Lbs.	100 Lbs.
TIMOTHY			
Master Farmer.....	\$ 2.60	\$ 5.10	\$10.00
TIMOTHY & ALSIKE MIXTURE			
20-25% Alsike.....	5.65	11.10	22.00
30-35% Alsike.....	6.65	13.10	26.00
BROME GRASS			
Canadian Certified No. 1.....	6.65	13.15	26.00
Canadian Grown No. 1.....	6.40	12.65	25.00
BROME GRASS—NEW LINCOLN STRAIN			
Nebraska Grown Certified Blue Tag.....	8.90	17.65	35.00
Nebraska Grown.....	7.65	15.15	30.00
REED CANARY GRASS			
Master Farmer.....	10.65	21.15	42.00
CRESTED WHEAT GRASS			
Canadian No. 1.....	11.40	22.65	45.00

Prices include sacks	25 Lbs.	50 Lbs.	100 Lbs.
MEADOW FESCUE			
.....	\$ 7.00	\$13.65	\$27.00
KENTUCKY BLUE GRASS (5 lbs. \$2.75 ppd.)			
.....	10.25	20.15	40.00
RED TOP			
Master Farmer.....	7.00	13.65	27.00
MASTER "A" MIXTURE			
(A good producer on heavy soils—page 60).....	10.90	21.35	42.50
MASTER "C" MIXTURE			
(One acre provides for one cow—page 60).....	8.00	15.60	31.00
MASTER "D" MIXTURE			
(Does well on sandy type soils—page 60).....	9.25	18.10	36.00
MASTER "E" MIXTURE			
(Economical short rotation mixture—page 60).....	9.50	18.60	37.00
MASTER "H" MIXTURE			
(Annual Hog Pasture—page 60).....			Sold Out

IMPROVED SEED GRAINS

Prices include sacks	Bu.	5 Bu. @	10 Bu. @	25 Bu. @
WHEAT				
Mida, Certified Blue Tag.....	\$ 5.25	\$ 5.20	\$ 5.15	\$ 5.10
Rival.....	4.75	4.70	4.65	4.60
Winter Wheat (Write for price in August).				
OATS				
New Clinton, Certified Blue Tag.....	3.25	3.20	3.15	3.10
New Benton, Certified Blue Tag.....	4.00	3.95	3.90	3.85
New Bonda, Certified Blue Tag.....	4.00			
New Mindo, Certified Blue Tag.....	4.00			

NOTE: We will supply treated seed oats only as long as our supply of Ceresan "M" lasts. Then we reserve the right to ship untreated seed.

Prices include sacks	Bu.	5 Bu. @	10 Bu. @
BARLEY			
New Montcalm, Canadian Certified.....	\$ 8.50	\$ 8.45	\$ 8.40
"L" or Kindred, Certified Blue Tag.....	4.60	4.55	4.50
Barless (Wis. 38), Certified Blue Tag.....	4.60	4.55	4.50
FLAX			
Koto, Certified Blue Tag.....	12.50	12.45	12.40
New Minerva, Certified Blue Tag.....	13.50		
(Limit 10 bu. per customer)			
New Dakota, Certified Blue Tag.....	13.50		
(Limit 10 bu. per customer)			
Red Wing.....	10.00	9.95	9.90
BUCKWHEAT.....	4.25	4.20	4.15

USE ORDER BLANK IN BACK OF CATALOG

FARMER SEED & NURSERY CO'S Blue Figure Price List

HYBRID SEED CORN

All Registered Seed Corn in 1-bushel, State Sealed Bags. See catalog pages 68 and 69 for description and adaptability of varieties. Prices subject to market changes and stocks being unsold. State Laboratory Germination tests given below.

All Hybrid Seed Corn is treated and each hybrid tagged for Planter Plate Recommendations. All Master Farmer Hybrids Certified and Sealed on Affidavit by Minnesota Crop Improvement Assn. All Minhybrids Registered and Sealed by Minnesota Crop Improvement Assn. All Master Farmer Hybrids Registered with Minnesota State Dept. of Agriculture, as per State Law. Strictly Minnesota grown (in Rice, LeSueur, and Waseca Counties).

Uniform Standard Grades

L—Large M—Medium S—Small R—Rounds F—Flats
 LF—over a 21 Round Screen and through a 14 Slotted Screen.
 LR—over a 21 Round Screen.
 MF—over a 19 Round Screen and through a 13 Slotted Screen.
 MR—over a 19 Round Screen.
 SF—over a 17 Round Screen and through a 11 Slotted Screen.
 SR—over a 17 Round Screen.

CASH PRICES

HYBRID	Matur- ity Days	GRADE	State Seed Laboratory Germ. Test	Bu.
Master F-21	84-88 Days	LF or MF SF or MR LR or SR	98% 98% 98%	\$10.25 9.25 8.25
Master F-42	96-100 Days	LF or MF SF or MR SR	99% 98% 99%	10.25 9.25 8.25
Master F-60	101-105 Days	LF or MF MR LR or SR	98% 99%	Sold Out 9.25 8.25
Master F-60A	102-105 Days	LF or MF SF or MR SR	98% 99% 98%	10.25 9.25 8.25
Master F-82	104-108 Days	LF MR LR	97% 98% 97%	10.25 9.25 8.25
Master F-101	114-118 Days	LF	99%	10.25
Master F-101A	112-116 Days	LF or MF SF or MR LR or SR	98% 97% 97%	10.25 9.25 8.25
Master F-106A (Improved Ideal Hybrid Silo Corn)	112-116 Days	LF or MF SF or MR LR or SR	98% 97% 97%	10.25 9.25 8.25
Wisconsin 279	84-88 Days	LF or MF	98%	9.50
Minhybrid 602	98-102 Days	LF or MF SF or MR LR or SR	98% 96% 97%	9.50 8.50 7.50
Minhybrid 503	105-109 Days	LF or MF SF or MR LR or SR	97% 97% 97%	9.50 8.50 7.50
Minhybrid 404	108-112 Days	LF or MF SF LR or SR	98% 99% 99%	9.50 8.50 7.50

IMPORTANT RULES

1. If two Hybrids are equal in genetic potentiality for yield, and one is later than the other, the later maturing variety will produce greater yield. Select varieties which utilize the full season for your zone, and still mature safely. (See map, page 69).
2. All grades of a Hybrid Variety possess the same inherited power to produce high yields, regardless of kernel size or shape. Iowa and Wis. Experiment Station Tests show no difference in yield between flat, small flats, and round grades. The grade you buy should depend on the per acre cost of seed.

IN SELECTING YOUR HYBRID SEED CORN

3. Plant only first generation Hybrid Seed for ripe grain or silage. U. S. D. A. and the Wis. Station tests show losses in yield of about 25% when using advanced generation seed.
4. To obtain the desired stand, plant 20% to 25% more kernels than the expected number of mature plants—to compensate for losses through diseases, animals, cultivation. It will prove a wise investment.
5. The Minnesota Experiment Station says, "Seed of different Hybrids cannot be readily distinguished by appearance, therefore, purchase seed from only reliable sources."

SILAGE AND FODDER CORN (OPEN POLLINATED)

MINNESOTA 13, Central Strain (graded).....
 IDEAL HYBRID SILO CORN, (Master F-106A).....
 "LOT VIGOR" Hybrid Corn.....

Germ. Peck Bu.
 (Write for price)
 (See prices at left)
 (See other side)

RAPE, CANE, SUDAN GRASS, MILLET

	25 Lbs.	50 Lbs.	100 Lbs.
RAPE, DWARF ESSEX, U. S. Grown.....	\$ 5.90	\$11.65	\$23.00
CANE			
Minnesota Early Orange Sorghum Cane.....	3.35	6.50	12.75
Dakota Amber 39-30-S (Low in Acid).....	Write for Prices		
Fodder Cane.....	3.10	6.00	11.75
SUDAN GRASS, Master Farmer.....	3.65	7.15	14.00
SUNFLOWER SEED, MAMMOTH RUSSIAN.....	8.90	17.65	35.00
MILLET			
Golden or German.....	2.80	5.40	10.50
Siberian.....	2.80	5.40	10.50
Japanese.....	2.65	5.15	10.00
Red Proso Millet.....	2.10	4.00	7.75

SOY BEANS

(Bu. 60 lbs.)	Peck	Bu.	100 Lbs.
NEW FLAMBEAU, Certified.....	\$1.75	\$6.50	\$10.80
OTTAWA MANDARIN, Certified.....	1.75	6.50	10.80
HABARO, Certified.....	1.75	6.50	10.80
MANCHU.....	1.65	6.00	10.00

FIELD PEAS & VETCHES

(Bu. 60 lbs.)	Peck	Bu.	100 Lbs.
CANADA YELLOW FIELD PEAS			
Minnesota Grown.....	\$ 1.65	\$ 6.15	\$10.00
VETCHES, HAIRY OR SAND			
Michigan Grown.....	5.00	19.65	32.50



It's News! BARS PROUT Prevents Potato Sprouting in Storage!

Now you can store your home-grown potatoes for 12 months without sprouting or shrinking! Cold storage not necessary. BARS PROUT actually improves cooking and eating quality, also appearance. Saves 15% in shrinkage. Unsprouted potatoes bring a premium on spring markets. Controls sprouting of carrots, turnips, rutabagas in storage. Absolutely harmless (see page 71). Just dust tubers with sifter can.
 10 oz. Sifter Can (treats 8 bu.) postpaid \$1.00.
 5 lb. Can (treats 55 bu.) postpaid \$5.75.
 20 lb. Drum (treats 250 bu.) not ppd. \$16.00.

State Certified SEED POTATOES, Northern Grown

Certified Seed Potatoes are your best crop insurance. Don't buy just ordinary U. S. No. 1 Grade Seed Potatoes—don't let price decide the placing of your order. You have too much at stake to gamble with ordinary seed.

For years we have specialized in State Certified Potatoes. These are checked for disease and type repeatedly during the growing season—inspected again at grading time, and in the bin. Finally they merit Official Certification Tag on each 100-lb. bag.

We cannot offer Certified Potatoes less than bag lots (100 lbs.). Those requiring smaller quantities, are asked to join with neighbors in making up full bag orders, or buy Potato Eyes (page 20).

Prices F. O. B. Faribault	Per Bag (100 Lbs.)	2 or More Bags Per Bag
EARLY OHIO, Certified.....	\$5.20	\$5.10
EARLY WHITE WARBA, Certified.....	4.90	4.80
EARLY RED WARBA, Certified.....	4.90	4.80
EARLY IRISH COBBLERS, Certified....	4.55	4.45

ABOUT POTATO EYES

For trial purposes or small Gardens, Seed Potato Eyes will be available in all varieties. Small gardeners will save on seed costs and transportation in ordering these — see catalog page 20.

Prices F. O. B. Faribault	Per Bag (100 Lbs.)	2 or More Bags Per Bag
NEW TETON, Certified, Ring Rot Resistant...	\$6.00	\$5.90
CHIPPEWA, Certified.....	5.00	4.90
NEW SEBAGO, Certified		
Blight Resistant.....	5.00	4.90
NEW SEQUOIA, Certified		
Blight Resistant "Famous Maine Blue Tag".....	5.80	5.70

ALL PRICES SUBJECT TO CHANCE—SEND FOR REVISED PRICE LIST IF ORDERING LATER—

GET THIS BIG FARM MAGAZINE NOW!

12 MONTHS 50c or 60 MONTHS \$2

YOU will wonder how these two complete up-to-the-minute illustrated magazines, *Farm Journal* and *The Farmer's Wife*, now combined in one magazine, can cost so little. It's for all—men, women, boys and girls,—clean and wholesome, no liquor advertisements. You will look forward to each month's visit.

Farm Journal and Farmer's Wife, Dept. C, Phila., Pa.

☐ ONE YEAR (12 Big Issues) 50c ☐ OR FIVE YEARS (60 Big Issues) \$2 ☐

BARGAIN OFFER

Mark the Offer You Want. Send Money Our Risk.

Name.....
Please Print: First Name Middle Initial Last Name

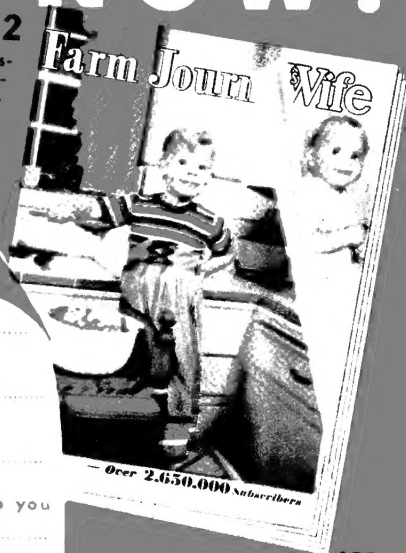
R.F.D.....Box.....or Street.....
If you live on a R.F.D. put route number above for prompt service.

P. O.....State.....
Please Print

IMPORTANT: The following information will help our editors help you

Acres: Own.....; Rent.....; Business or occupation

Send coupon direct to Farm Journal and Farmer's Wife, Dept. C,
Phila. 5, Pa., with remittance (our risk). Canada and other countries outside U. S., 75c per year.



SEE
OTHER
SIDE

TAKE YOUR CHOICE

12

MONTHS

50¢

Send 50c for 1 year (12

Big Issues, average way
over 100 pages) or

BIGGEST BARGAIN

Send only \$2 for 5
years (60 Big Issues).

You get an extra year's
subscription.

60

MONTHS

\$2

WORLD'S LARGEST AND MOST INFLUENTIAL FARM MAGAZINE

FARM JOURNAL AND FARMER'S WIFE is published monthly; big issues; new timely features; fine pictures, beautiful colored covers. Concise, easy to read, 71 years old. Largest mail subscription list in the world, — over 2,650,000 subscribers from Maine to California.

Something for the Whole Family

For folks who live in the Country and love the Country. This fastest printed magazine with month-ahead information gets the important news to you first when valuable and useful.

FARM JOURNAL section: Latest ideas in farm practice, new machinery and buildings, "How to Do Things," livestock, dairying, poultry, crops, orchard, garden and everything about the farm. Will keep you up-to-date on changing conditions affecting your farming operations. Latest Washington news of importance to farmers.

THE MAGAZINE WITH THE MONTHLY "LATE AND IMPORTANT" FORECAST LETTER — SUGGESTS WHEN TO BUY, WHEN TO SELL, WHAT TO PLANT AND HOW TO MANAGE TO MAKE MORE MONEY.

FARMER'S WIFE section, with its real, colorful covers, is a complete magazine for women readers. Homemaking, decorating, house plans, fashions, needlework, patterns. Health and beauty, child care. Foods, canning, recipes tested in our kitchen. Farm Women's letters. Clean, interesting fiction. **DEPARTMENTS FOR GIRLS AND BOYS:** Latest 4-H Club and FFA news, answers to young folks' problems, grooming, etiquette, parties, games, movies, sports, aviation, hobbies, money-making ideas, jokes, cartoons.

Mail this Coupon today with remittance (at our risk), direct to Farm Journal and Farmer's Wife, Dept. C, Philadelphia 5, Pa.

Recommended by

FARMER SEED & NURSERY CO.

IF YOU ARE A SUBSCRIBER AND DO NOT USE THIS

**It's
NEW!**

*Slurry
Treated*
**SEED
OATS**

Ready to Plant
(DISEASE RESISTANT)

- ★ **CLINTON**
- ★ **BENTON**
- ★ **BONDA**
- ★ **MINDO**

See Catalog Page 66
and Blue Figure Price List



New Clinton Oats shows resistance to blight



- **EXPERTLY CLEANED**
- **STATE CERTIFIED**



MASTER HYBRIDS

Official State Yield Tests Prove Outstanding Performance:

The data shown below is taken from official state yield trials conducted by State Experiment Stations—not private tests.

RECORD OF MASTER F 101 (114-118 Days)

Test	Yield (bu. per acre)	Rank
Minnesota Southern Zone, 3 Yr. Average (42 thru '44)	70.9	Yield index plus 5.7
Michigan, Monroe County, 1945	81.0	Highest yielding hybrid in entire trial
Michigan St. Joseph County, 1945	78.5	High yield
South Dakota, 1945 Minnehaha County	50.4	Significantly highest yielding group
Iowa, Northern Section, 2 Yr. Average ('44-'45)	58.77	Performance score 98.52

SEE BLUE FIGURE PRICE LIST

**SEE PAGES 68 & 69 FOR OTHER
MASTER & MINHYBRIDS**

BETTER SEED At Lower Cost

We grow our hybrids here in Minnesota to insure their fitness to this northern climate. Every field is checked repeatedly by State Inspectors. The finished product is tested in our own laboratory, and by the STATE SEED LABORATORY, as well! Every bag is treated, State Certified, State Sealed, and carries State Seed Laboratory Germination tests. You can depend on it for good results! Rely on Official State Yield Trials conducted by State Experiment Stations for unbiased performance records. Master Hybrids have rated consistently high in these official tests year after year.

**Every
Bag
Treated,
Certified
and
State
Inspected**

BUY DIRECT AND SAVE NO AGENTS

Save A DOLLAR OR MORE on every bushel by ordering direct from producers—you pay no agents a profit. Compare our prices!

See
Blue Figure
PRICE
LIST
at Left

For Canning and Quick Freezing

FARIBO BRITTLE WAX BEANS

(No. 34)—The finest in Wax Beans. Heavy loads of tender, succulent, buttery-flavored, absolutely stringless beans. Ideal for table use, canning or freezing.

Big Pkt. 10c, $\frac{1}{2}$ lb. 30c, lb. 45c prepaid.

TENDERGREEN STRINGLESS BEANS

(No. 15)—Round, fleshy, brittle, green beans that make a dinner treat, fresh from the garden, canned, or frozen. Tender, stringless, fiberless, appetizing flavor.

Big Pkt. 10c, $\frac{1}{2}$ lb. 25c, lb. 40c prepaid.

MARVEL FREEZER PEA

(Little Marvel)

(No. 464)—None better for canning or quick freezing. Retains its color and garden fresh flavor in frozen storage better than others. Extra early maturing and heavy yielding.

Big Pkt. 10c, $\frac{1}{2}$ lb. 20c, lb. 35c prepaid.

**SELECTED
Varieties
That Keep
Their Garden
Flavor in
Frozen Storage**

**6 BIG
PACKETS
HOME CANNER'S
FAVORITES**

One of each shown here

50¢ Ppd.

KANNER KING HYBRID SWEET CORN

(No. 207)—Large, uniform ears, packed with tender golden kernels of high-sugar content. A main crop, heavy yielding hybrid of super quality for table, canning or freezing.

Big Pkt. 12c, $\frac{1}{2}$ lb. 30c, lb. 50c prepaid.

DETROIT DARK RED BEETS

(No. 85)—These smooth, uniform, attractive beets, with crisp flesh of deep oxblood red, are sweet and tender, without a trace of woodiness.

Pkt. 10c, Oz. 20c, $\frac{1}{4}$ lb. 60c prepaid.

RUTGERS TOMATO

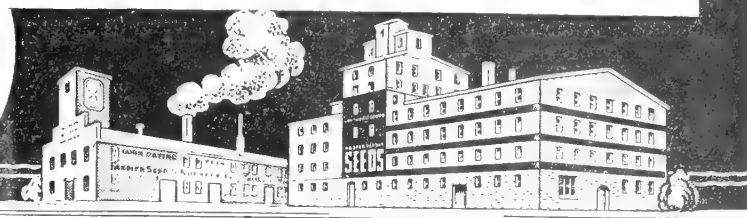
(No. 735)—One of the finest tomatoes grown. Smooth, solid, brilliant scarlet fruits, ripen evenly from the inside out. Pleasing, mildly acid taste. Makes sparkling red juice.

Pkt. 10c, $\frac{1}{2}$ Oz. 35c, Oz. 60c prepaid.

FARMER SEED & NURSERY CO.

E. J. KIEKENAPP, President R. J. KIEKENAPP, Vice-President KEN. E. RELYEA, 2nd Vice-President CHAS. DAUPHINE, Secretary & Treasurer

Seed Growers
and Nurserymen



FARIBAUT - MINNESOTA

1948 — Our Sixtieth Anniversary Year

Help THEM TO FEED THEMSELVES

Send an ASTA European SEED GIFT PACKAGE For \$3.95 Delivered

SEND VEGETABLE SEEDS TO YOUR FRIENDS ABROAD

Owing to Crop Failures, Seeds Are Scarce in Europe

ASTA Official Assortment, prepared as recommended by U. S. Department of Agriculture, sufficient to produce 5 tons of Vegetables, one year's supply for average family.

**"FREEDOM—
ASSORTMENT"**

**PACKED FOR EXPORT, \$3.95
DELIVERED PREPAID**

We Ship Direct to Individuals You Specify in the Following Countries:

Albania	France	Italy	Portugal
Austria	Germany	Luxembourg	Rumania
Belgium	British Isles	Netherlands	Sweden
Czechoslovakia	Greece	Norway	Switzerland
Denmark	Hungary	Poland	Turkey
Finland			Yugoslavia

ORDERS ACCEPTED NOW FOR IMMEDIATE SHIPMENT

FOOD FOR FREEDOM

The cry for food from millions of undernourished people of Europe cannot go unheeded. Our very hopes for Peace hinge upon our generosity and willingness to save lives through food. Here is how you can help—

- 1—By producing more food at home, in order to release foodstuffs for the needy people overseas.
- 2—By having us send seeds to your relatives or friends in Europe. We take care of shipping, just send us your order with your friends' names and addresses. Your name will be enclosed. Or, we can ship in your name for distribution to needy European families thru Church World Service or Red Cross. Shipments to persons who cannot be located, will be distributed accordingly.

European Seed Assortment

(Endorsed by the American Seed Trade Association)

We are co-operating with the U. S. Department of Agriculture, and orders can be shipped to individuals in the countries named below at left.

The American Seed Industry is making available a special assortment of vegetable seeds, at less than normal retail value. Packets contain enough seed to produce as much as five tons of food for fresh use, and winter storage, at a cost of only \$3.95—including postage, to any friend or relative you name in the countries listed.

This assortment was developed by experts to furnish maximum food production, and is adequate even for a large family. It is adapted to the growing conditions of the European countries listed, and substitutions cannot be permitted.

"FREEDOM" ASSORTMENT TO PRODUCE 5 TONS OF FOOD, ONLY \$3.95 DELIVERED PREPAID

8 oz. Peas—Dwarf Garden	1/16 oz. Cabbage—Early
8 oz. Bush Beans—Green Snap	1/16 oz. Cabbage—Medium
2 oz. Pole Beans	1/64 oz. Cauliflower
2 oz. Beet—Garden	1/4 oz. Cucumber
1 oz. Carrot, Chantenay, Danvers	1/16 oz. Endive
1 oz. Onion—Storage	1/12 oz. Kale
1 oz. Radish—Spring	1/10 oz. Lettuce—Leaf
1 oz. Spinach	1/10 oz. Lettuce—Head
1/20 oz. Brussels Sprouts	1/16 oz. Leek
1/2 oz. Turnip—Purple Top	1/12 oz. Parsley—Curled
1/2 oz. Rutabaga—Yellow	1/8 oz. Parsnip
1/16 oz. Broccoli	1/8 oz. Squash—Summer
	1/16 oz. Tomato—Second early

Your name and address will be enclosed in each package.

Churches, Clubs, Lodges, write for Quotations on Quantity Lots.

Quality VEGETABLE SEEDS Northern Grown



Fresh Healthful
Vegetables to
Supply Your Table
the Year Round

Our Trial Gardens at Faribault on U. S. Highway 65 where seed stocks are tested.

Asparagus Seed (FOR ASPARAGUS ROOTS) SEE PAGE 27

1 ounce of seed will sow about 60 feet of drill.

4. NEW PARADISE — Rust-Resistant. Produces a normal crop one year earlier than other varieties and gives heavier production throughout its life. Large crisp, tender stalks of exceptionally fine, mild flavor. Only 6 to 8 stalks required to the pound. The seed should be planted very thinly in seed beds the first season. Pkt. 10c, oz. 25c, 1/4 lb. 90c, lb. \$3.50, prepaid.

5. WASHINGTON — Rust-Resistant. Developed by experts of the U. S. Dept. of Agriculture, who originated this strain. The stalks are dark green with purplish tips. Very large, straight and of superb quality. The leading variety grown by market gardeners. Pkt. 8c, oz. 20c, 1/4 lb. 70c, lb. \$2.50, prepaid.

Leaflet on Asparagus Culture Free Upon Request

Green Pod Bush Beans

1 lb. plants 50 foot row.

CULTURE—Beans should be sown after May 15th, when the ground is thoroughly warm. Make successive sowings, 2 weeks apart, for a supply of beans all summer. Sow in drills 15 inches apart, 2 inches deep, dropping the beans 3 inches apart in the rows, eyes down and cover. Cultivate often.

NOTE—Do not walk through, or pick beans when they are wet with dew or rain as touching the wet plants spreads the spores of anthracnose or bean canker from one plant to another.

13. LOGAN—(48 days.) Long, slender pods, well rounded, crisp and delicious. A heavy yielder, maturing each crop quickly, with other crops following. Bred by the Florida Experiment Station to resist summer heat, Logan is also resistant to common mosaic and has proven successful in tests in various parts of the country. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 45c, prepaid. (Color photo on inside back cover.)

15. TENDERGREEN STRINGLESS—(54 days.) So tender and snappy it fairly melts in your mouth! Excellent for home garden or market. Pod: 6 inches long, round fleshy, dark green, stringless and of fine quality. A very heavy yielder. Seed: brown, blotched with light fawn. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.90, prepaid. (Color photo, page 2.)

GROW VITAMINS AT YOUR KITCHEN DOOR

Edible Soy Beans

NUTRITION KING OF VEGETABLES

For Cooking, Baking,
Canning, Freezing
and Sprouting.

Get Free Recipe Folder

29. BANSEI—Considered the best of these early miracle beans. No single vegetable variety surpassing Edible Soy Beans in nutritional values. You have read about them in all the leading magazines and newspapers. Bansei grows 18-24 inches tall—will thrive in any average garden soil—is resistant to disease and insect pests—and ready to eat in 90 days. Pods are 2 1/2 inches long. Beans bright green to yellow at maturity. Price: Pkt. 10c, 1/2 lb. 20c, lb. 35c, 2 lbs. 60c, 5 lbs. \$1.30, prepaid.

16. BURPEE'S STRINGLESS—(52 days.) Gardeners and canners like this stringless and fiberless bean for its excellent quality. It sells readily on the market, and for cut beans for canning, it can't be beat. Pod: 6 inches long, medium green, round. Seed: coffee brown. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.90, prepaid.

17. BOUNTIFUL—(49 days.) A bountiful yielder of delicious, extra early, green, stringless beans. For home garden and for early market, Bountiful is unsurpassed. Pod: 6 3/4 inches long, flat, stringless and of fine quality. Seed: yellow straw color. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.90, prepaid.

For Bigger & Better Crops



USE NITRAGIN

Garden Size Packet
for Inoculating
PEAS, BEANS and
SWEET PEAS.

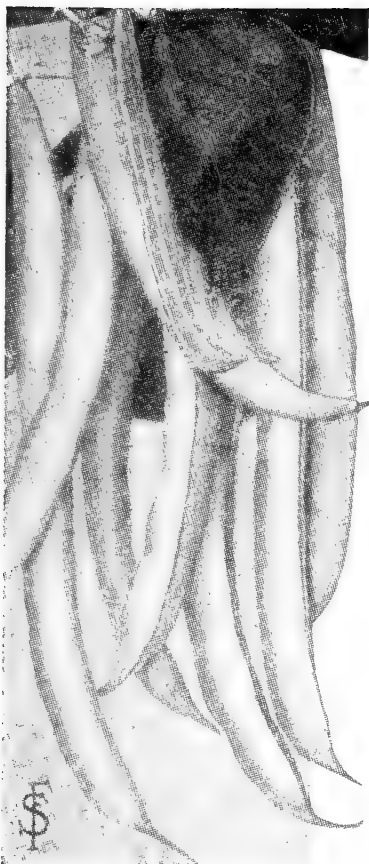
(Will treat 8 lbs.
of seed.) **10c**



New Logan—Long, Slender and Well-rounded.

Bansei Edible Soy Beans

Logan—Newest Green-Podded Bush Bean is Disease and Heat-Resistant.



Top Notch Golden Wax.

Wax Pod BUSH BEANS

Market Growers: write for quantity prices.

1 lb. plants 50 foot row.
Cultural Directions on Page 4.

34. FARIBO BRITTLE WAX — (52 days.) Tender, succulent, buttery-flavored beans. Ideal for home use and for canning. An excellent winter shell bean. Pods are 6 inches long, attractive lemon yellow color, and absolutely stringless. Seed is white, kidney-shaped with black eye. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 45c, 5 lbs. \$2.00, prepaid.

35. TOP NOTCH GOLDEN WAX — (50 days.) Superior in quality and yield. Pods 6 inches long, stringless, of rich yellow color, nearly flat and broad. Seed resembles Golden Wax but pods run about an inch longer and are absolutely stringless. The maturity is a few days later. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 45c, 5 lbs. \$2.00, prepaid.

36. BLACK PENCIL POD WAX — (52 days.) Vigorous, productive and of appetizing flavor. Pods are 6 3/4 inches long, round, fleshy, golden yellow, tender, absolutely stringless, brittle and of finest quality. Seeds are oblong, solid black. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 45c, 5 lbs. \$2.00, prepaid.

37. SURE CROP STRINGLESS WAX — (53 days.) A favorite with truckers and shippers. Resistant to blight and rust, hardy and vigorous even in dry sections. Bears heavily. Pods are 6 1/2 inches long, golden yellow, flat, brittle, strictly stringless, of fine texture and quality. Seeds are oval, jet black. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 45c, 5 lbs. \$2.00 ppd.

Kentucky Wonder Pole Beans → Stringless, Tender. Never become tough.



Sure Crop Stringless Wax—Sturdy and productive

Red Kidney Beans

64. RED KIDNEY OR CHILI BEAN — (95 days.) Everyone likes the delicious, tangy flavor of hot Mexican Chili Con Carne! Anyone can grow these delicious red Chili Beans. They are of excellent quality for dry bean use. Pods: 6 inches long, flat, waxy green. Seeds: reddish brown. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 45c, 5 lbs. \$2.00, prepaid.

Bush Lima Beans

CULTURE—Plant in rows 3 feet apart in rich soil, 6 to 10 inches apart in the row, always setting the seed with the eye down. Plant 3 inches deep. 1 lb. plants 50 ft. of row.

73. BABY FORDHOOK — (72 days.) Thick-seeded or "potato" type beans, dry and mealy with a delicious flavor. Excellent for canning and freezing. Plant is of true bush form, about 14 inches tall, and bears a surprisingly heavy crop of pods. Wide, thick and slightly curved, the pods are 2 3/4 inches long and 3/4 inch wide and contain 3 or 4 beans, close, but not crowded. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 50c, prepaid.

74. BURPEE'S IMPROVED — (75 days.) Of excellent quality and luscious flavor. Pods are 4 inches long, 1 1/4 inches wide; contain 4 to 5 seeds. A heavy yielder. Seeds are large, plump, flat, wrinkled; white with greenish tinge. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 50c, prepaid.

75. HENDERSON'S — (68 days.) Produces small, flat, green shell beans of excellent quality. Very early and fine for canning. Pods are 3 1/2 inches long with 3 to 4 seeds. Plant is small, bushy. Seeds and dry beans, creamy white. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 45c, prepaid.

76. FORDHOOK 242 — (75 days.) A new strain of Fordhook, selected to produce a heavier yield in hot weather and under adverse conditions. Beans are of high quality, thick and meaty, excellent for eating fresh, canning or freezing. Pods are 3 to 4 inches long, and contain three or four thick beans of an appetizing pale green color. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 55c, prepaid.

Pole Snap Beans

One pound plants 200 hills. Plant hills 3 feet apart each way sowing 4 to 6 beans to a hill. Stake with poles 7 feet high.

46. KENTUCKY WONDER — (65 days.) (Old Homestead.) The most popular pole bean grown. A splendid canner. Will bear heavily all summer if kept picked. Pods are 8 inches long, silvery green, practically round, of good quality and very brittle. Seeds are buff brown. Mammoth pkt. 10c, 1/2 lb. 30c, lb. 50c, 5 lbs. \$2.45, prepaid.

Beans for Baking

53. MICHILITE — An improved navy bean introduced by the Michigan Agricultural Station. Resistant to mosaic and bacterial blight. Vines similar to navy. Seed glossy white, small, full oval shape. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.85, prepaid.

54. GREAT NORTHERN — Better for baking and cooking than any navy bean, as it cooks in two-thirds of the time, and is of much better flavor. Beans are larger than common navy beans. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.85, prepaid.

55. ROBUST — Plants are of decidedly robust growth. Beans are clear white. Mammoth pkt. 10c, 1/2 lb. 25c, lb. 40c, 5 lbs. \$1.85, prepaid.

SPERGON

New Non-poisonous Seed Protectant

Recommended by State and University Exp. Stations For Use on Beans, Peas, Corn and Lima Beans.

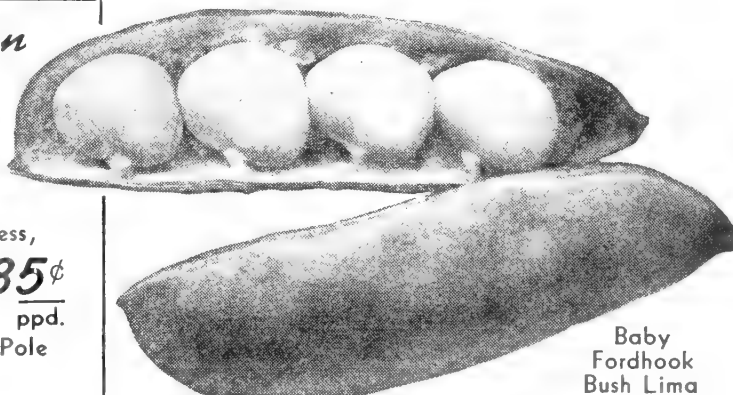
Growers report an increase in yield of over 35% from Spergon-treated seeds. Spergon kills harmful soil fungi and bacteria—prevents decay and damping-off, especially in cold, wet weather. Spergon assures better germination of seed and produces healthy, vigorous plants that give better yield. (Can be used with Legume-Aid or Nitragin).

Price: 1-oz. package 25c, 5-oz. package \$1.00, prepaid.

All-Season Bean Collection

One Pkt. Each:

Tendergreen Stringless,
Sure Crop Wax, 35¢
Baby Fordhook
Lima, ppd.
Kentucky Wonder Pole Bean



Baby Fordhook Bush Lima

Tender Young TABLE BEETS

Sow 1 oz. to 80 ft. of row—6 lbs. per acre.

CULTURE—Sow in drills one foot apart and one inch deep, as early as the ground can be worked; continue for a succession as late as the middle of August; when the plants are large enough, thin out to stand four inches apart. To eradicate maggots use Maggot Destroyer. See page 16 for prices.

82. EARLY WONDER—(54 days.) First on the early market. A splendid shipping variety. Similar in quality to Winesap. Roots are blood red with small taproot. Flesh is blood red with lighter zones, tender and of good quality. Tops are medium small. Pkt. 10c. oz. 20c, ¼ lb. 60c, lb. \$2.10, prepaid. Not prepaid, 5 lbs. at \$1.90 per lb.

84. EARLY WONDER TALL TOP—The Dual-Purpose Beet. Plenty of "tops" for greens as well as finest quality roots for table use. Gardeners like this very early beet with its smooth skin, uniform semi-globe shape and its deep red flesh, which is particularly tender and sweet. Very popular for canning whole. Pkt. 10c. oz. 20c, ¼ lb. 60c, lb. \$2.10, prepaid. Not prepaid, 5 lbs. at \$1.90 per lb.

85. DETROIT DARK RED—(62 days.) The outstanding late variety for truckers, produce shippers, canners and home gardeners. Roots are globular, smooth, uniform, attractive, with small taproot. Flesh is deep ox-blood red, with indistinct zones. Splendid quality, sweet and tender, without any trace of woodiness. Pkt. 10c. oz. 20c, ¼ lb. 60c, lb. \$2.20, prepaid. Not prepaid, 5 lbs. at \$2.00 per lb. (Color photo page 2.)

87. EARLY BLOOD TURNIP—(68 days.) One of the best for home use or for market gardeners. Tops medium small, but fairly coarse. Roots turnip-shaped; dark red. Flesh bright red with zones of lighter shade. Pkt. 8c. oz. 15c, ¼ lb. 50c, lb. \$1.90, prepaid. Not prepaid, 5 lbs. at \$1.75 per lb.

89. LUTZ GREEN LEAF—(Winter Keeper.)—(75 days.) Unequaled for late sowing and winter storage. Retains its delicious flavor and remains sweet and tender even when large and old. Beets are almost globe-shaped, tapering somewhat toward the root, the flesh is deep blood-red of excellent flavor and the remarkable manner in which this quality is preserved during winter storage, has given this beet the name of Winter Keeper. Pkt. 15c. oz. 30c, ¼ lb. 90c, prepaid.



Detroit
Dark Red →
Tender and
delicious
even when
full-grown.

Swiss Chard,
or
Spinach Beet
see page 22

Sow 1 oz. to
100 ft. of
drill
5 lbs.
per acre.

Mangels or Stock Beets

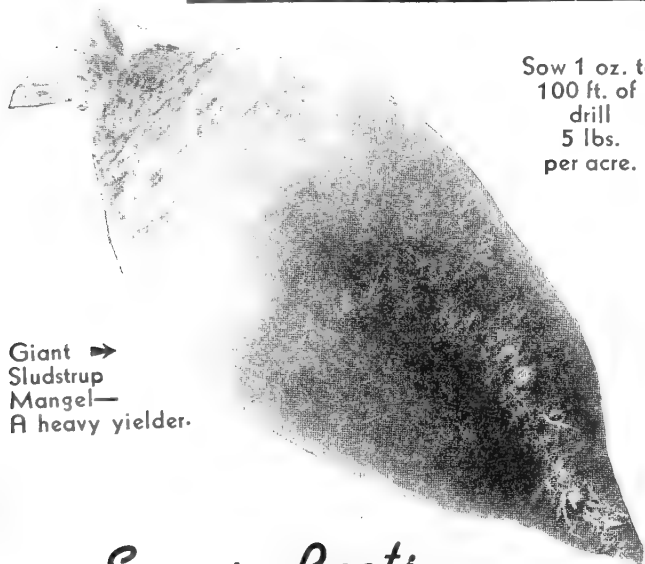
Mangels are the most important of all root crops for feeding livestock. Palatable, easily digested and highly nutritious, both Dairy Farmers and Poultry Raisers find them a valuable winter feed for cattle and poultry. They increase the flow of milk when fed to cattle; they keep hens healthy and stimulate egg production. They should be fed at the rate of 25 lbs. to 100 hens per day, with grain. Mangels are easily stored for winter, in root cellars or outdoor pits.

CULTURE—Sow at corn planting time—in drills 2 to 2½ feet apart, on rich moist land, the seed should be planted an inch deep; on dry and sandy soil it must be planted 1¼ to 1½ inches deep. Thin out to stand 8 inches apart in row.

92. GIANT HALF SUGAR—Roots are long, oval, white with light bronze-green shoulder. Flesh is white and high in sugar content. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

94. GIANT SLUDSTRUP—A very high yielder. Roots are long, oval, orange colored. Flesh is white with yellow tinge. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

96. MAMMOTH LONG RED—Yields from 20 to 30 tons per acre. Roots extremely large, tapering, grow half above ground; skin light red. Flesh is white with rose tinge. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.



Giant →
Sludstrup
Mangel—
A heavy yielder.

Sugar Beets

99. KLEIN WANZLEBEN—U. S. No. 1 Strain—The most popular variety for sugar manufacture on account of high sugar content; also good for stock feed. Roots are long, with white skin and flesh. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

Ask for free leaflet, "How to Produce Your Own Sugar and Syrup from Sugar Beets."

Grow These Table Delicacies

104. BRUSSELS SPROUTS

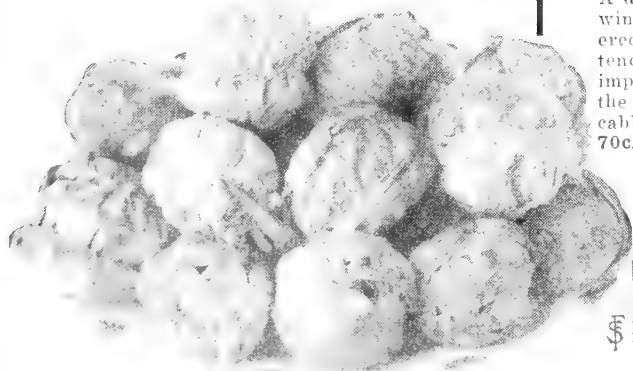
A delicious vegetable for fall and early winter use. The plant stalks are covered with small cabbage-like sprouts, tender and succulent. The flavor is improved by a touch of frost. Requires the same method of culture as late cabbage. Pkt. 10c, ½ oz. 40c, oz. 70c, prepaid.

Treat your seed for Disease Control before planting. Use ARASAN, a chemical powder that sterilizes both seed and soil, and insures better germination and healthier seedlings. See page 17.



↑ Broccoli A Long-Season Vegetable
Harvested Until Killing Frost.

102. EARLY GREEN SPROUTING—(California.)—Famed for its tender, delicious flavor and healthful qualities. Cultivated like cabbage, it bears a succession of sprouting heads which, if kept cut, will be replaced by others for 8-10 weeks. Each sprout, about 5 inches long, ends in a small head of deep green buds. Should not be cooked longer than 15-20 minutes or the delicate flavor will be destroyed. Pkt. 10c, ½ oz. 25c, oz. 40c, ¼ lb. \$1.25, prepaid.



Grow Brussels Sprouts for your Thanksgiving dinner this year. When cooked they are tender and delicious with a mild savory flavor.

Fine CABBAGE SEED

from Pure Bred Strains

One ounce will produce about 2,500 plants.
1/4 oz. of seed for 50-foot row.

Culture—The best way to start cabbage, especially the early sorts, is in hotbeds, flats, or in a greenhouse. Sow the seed 3/4 inch deep, in carefully prepared rich garden soil. Seed usually germinates in 5 to 10 days. When ready to transplant, set into paper pots or plant bands, in flats, until time to set outdoors. The plants can then be set out without disturbing the roots, and the paper bands form the best protection against cutworms. Set in rows 2 feet apart, 20 inches apart in the rows. Late cabbage may be sown in the open, in rows, and transplanted when 4 to 6 inches high. Prevent Black Rot and Blackleg by soaking seed in hot water (125 degrees) for 30 minutes. Remove and dry quickly.

Use Pyrocidic Dust to control Cabbage Worms. See page 12.

HOTKAPS protect young cabbage plants from frost, wind and hail. Growth is forced and yield increased 10 to 25 per cent. Crops mature 2 to 3 weeks earlier and bring premium prices. See page 75.

Early Cabbage

For Chinese Cabbage, see page 9.

111. EARLY JERSEY WAKEFIELD—

(62 days.) Extra early small plants with short stems—permitting close setting in the row, and hard, compact pointed heads of splendid quality. A valuable addition to home or market garden. Head: 5 inches thick, weighs 2 to 2 1/2 lbs., small, compact, conical, 7 inches long. Pkt. 10c, oz. 40c, 1/4 lb. \$1.10, prepaid.

112. EXTRA EARLY GOLDEN ACRE—

(62 days.) An extra early Copenhagen type, with small round solid heads maturing with Jersey Wakefield. Weight about 3 lbs. Plant dwarf, with few outer leaves. A high quality cabbage for early market. Pkt. 10c, oz. 40c, 1/4 lb. \$1.10, prepaid.

113. EARLY COPENHAGEN MARKET—

(68 days.) Dependably early and uniform; used as an early shipper and desirable also for early kraut. Heads round, solid and of superior quality, weight 3 1/2-4 lbs. An excellent short season type. Pkt. 10c, oz. 40c, 1/4 lb. \$1.10, prepaid.

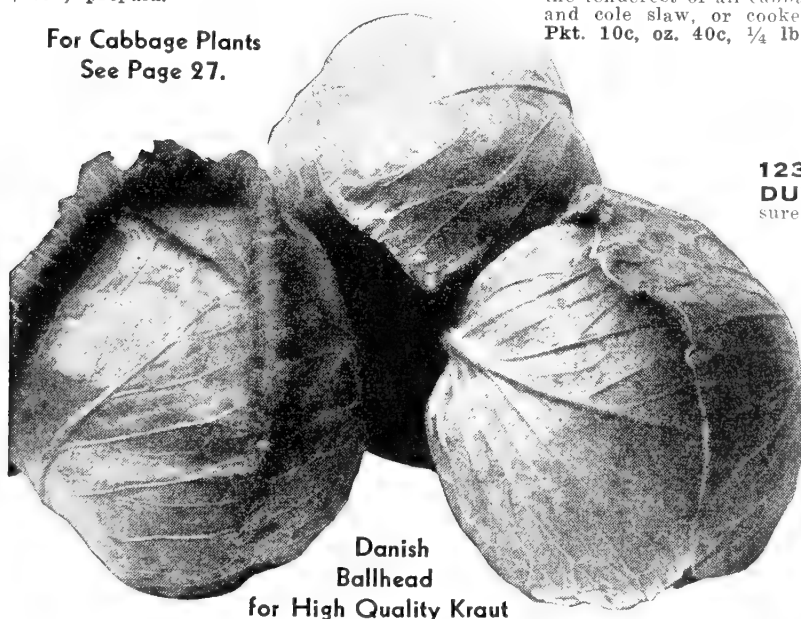
114. EARLY DWARF FLAT DUTCH—

(71 days.) A fine medium early sort, a dependable header and good keeper. Withstands heat and is popular for its flavor and tenderness. Head nearly round, weight 4-5 lbs. Plant small with short stem. Pkt. 10c, oz. 40c, 1/4 lb. \$1.00, prepaid.

115. GLORY OF ENKHUIZEN—

(75 to 80 days.) A second early sort particularly valuable for kraut. A good shipper. Head: 8 inches thick, weighs 5 to 8 lbs., large, round, solid, with few outer leaves, of excellent quality. Stem: medium short. Pkt. 10c, oz. 40c, 1/4 lb. \$1.00, prepaid.

For Cabbage Plants
See Page 27.



Danish Ballhead
for High Quality Kraut

Savoy Cabbage

Savoy Cabbage is not often seen in the market, and by growing it yourself, you have something unusual—superior in quality, delicate in flavor.

128. SAVOY PERFECTION—The head is medium in size, with rich, dark green leaves, deeply crumpled. The flavor is sweet and delicious at any season, but it is never at its best until touched by frost. An excellent keeper and the tenderest of all cabbages. Used raw in salads and cole slaw, or cooked, the flavor is superb. Pkt. 10c, oz. 40c, 1/4 lb. \$1.25, prepaid.

124. DANISH BALLHEAD

(TRUE HOLLANDER) — (105 days.) The finest late cabbage grown. The head is of an attractive white color, does not burst, and of exceptional flavor, crispness and tenderness. It survives both cold and dry-hot weather. Keeps throughout the winter. For shipping, storage or kraut—it is unsurpassed. Head: 8 inches thick, weighs 6 to 7 lbs., round and extremely solid. Pkt. 10c, oz. 45c, 1/4 lb. \$1.25, prepaid.

123. PREMIUM LATE FLAT DUTCH—

(100 days.) Slow growing, sure heading, of immense size and splendid quality. A favorite for market growing or for winter storing. Head: 10 to 12 inches thick, 7 inches deep, weighs 12 to 14 lbs.; extremely large, flat and solid. Pkt. 10c, oz. 40c, 1/4 lb. \$1.10, prepaid.

125. PENN STATE BALL-HEAD—

(110 days.) Developed by Penn State College of Agriculture. This late cabbage is the heaviest yielder and the most uniform of all. Especially desirable for winter storage and for kraut. Heads: Large, attractive, flattened globe-shape. Extremely hard. Weighing 15-20 lbs. each. Shows resistance to blackleg. Pkt. 10c, oz. 45c, 1/4 lb. \$1.25, prepaid.

Red Cabbage

129. MAMMOTH RED ROCK—

(98 days.) The largest and best of the red cabbages. Of superior quality and an excellent keeper. Head: 7 inches thick, weighs 7 to 8 lbs., round, extremely hard, color purplish red. Pkt. 10c, oz. 45c, 1/4 lb. \$1.25, prepaid.

Golden Acre, an attractive variety for early markets.



Yellows Resistant Varieties

116. JERSEY QUEEN—

(62 days.) If you want an early, pointed head, and have cabbage-yellows infection in your soil, grow this variety. A selection from Jersey Wakefield and exactly like it in type and earliness but exceptionally resistant to yellows. Fine for cole slaw, salads and for boiling. Pkt. 10c, oz. 60c, 1/4 lb. \$2.00, prepaid.

117. MARION MARKET—

(75 days.) Also known as Wisconsin Copenhagen as it is the Yellows Resistant strain of Copenhagen Market which matures early and uniformly. The round solid head averages 7 inches thick, weighs 4 pounds, has short stem. Good for early kraut. Pkt. 10c, oz. 60c, 1/4 lb. \$2.00, prepaid.

118. WISCONSIN "ALL SEASONS"—

(90 days.) An excellent kraut and winter keeping sort—valuable in areas infested with "Cabbage Yellows"—also resistant to wilt and will survive heat and drought. Head: 11 inches thick, 8 inches deep, weighs 9 to 10 lbs. Pkt. 10c, oz. 60c, 1/4 lb. \$2.00, prepaid.

119. HOLLANDER. WISCONSIN 8—

(100 days.) A splendid late cabbage for storage, shipment and kraut manufacture. A heavy yielder on land infested so badly with yellows disease that other varieties fail completely. Head: 8 inches thick, weighs 8 lbs., large, almost globe shaped, very firm. Pkt. 10c, oz. 60c, 1/4 lb. \$2.00, prepaid.

120. DETROIT RESISTANT—

(64 days.) The earliest of the round-headed yellows-resistant cabbages. Plants are short-stemmed, erect, with few outer leaves. Heads, 5 1/2 inches deep and 6 inches in diameter. A remarkably uniform and refined strain of exceptional quality and fair keeping ability. Highly resistant on "yellows"-infested land. Pkt. 10c, oz. 60c, 1/4 lb. \$2.00, prepaid.

Late or Winter Cabbage

CARROTS are Rich in Food Value

One ounce will sow 100 feet of row, 3 to 4 lbs. per acre.

CULTURE—Carrots will grow in any soil, but sandy deep loam is best. Sow as early as the ground can be worked, in rows 15 to 18 inches apart, covering about one-half inch. Plants should be thinned to two, three, or even four inches apart in the row.

Stones, fresh manure, clods of soil or lumps of manure cause poor forked roots, and failure to thin young plants leads to twisted inferior roots. Deeply prepared uniform friable soil produces clean, well developed roots.

← *Nantes Coreless*

141. NANTES CORELESS—(68 days.) Clean-skinned and smooth, of a rich, bright orange color, its appearance alone wins favor for it wherever grown. The flesh is crisp, tender and practically coreless, with a very delicate flavor. Roots about 6 inches long; tops very small. Excellent for forcing as well as for home and market garden. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.65, prepaid.

Touchon Excels in Flavor and Tenderness

143. TOUCHON—(70 days.) The exquisite flavor of tender young carrots is retained by this variety even when grown to full size. Similar to Nantes in shape, but a little longer. Tops small. The flesh is bright orange, tender, crisp and sweet; the core small and inconspicuous. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.65, prepaid.

You can enjoy delicious young carrots all summer by planting a short row every two weeks until August 15th.

Three Quality Carrots

Popular with Home and Market Gardeners as well as with Cannery

145. CHANTENAY OR MODEL—(72 days.) A splendid carrot for home and market gardens and for canning diced carrots. Rich orange-red roots, 5½ to 6 inches long, broad at the neck, narrowing gradually to a round, blunt base. Flesh deep orange, fine-grained and tender with a sweet delicate flavor. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

149. RED CORE CHANTENAY—(72 days.) Possesses all the fine qualities of its parent, Chantenay, but has a deeper, richer color, which gives the beautifully shaped roots an even more attractive appearance. Average length of roots, about 5 inches. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

151. DANVERS HALF-LONG—(75 days.) A handsome, cylindrical, stump-rooted carrot of a rich bright orange color throughout. About 6 inches long, smooth, with very little core; of excellent table quality. A heavy yielder it is easily harvested and stores well. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

151 Danvers
Half-Long →
Bright Orange
throughout.

Imperator Uniformly Tapered Ideal for Bunching

156. IMPERATOR—(77 days.) An elongated Danvers type, developed to meet the demand for a long, smooth, handsome carrot. Increasingly popular for the home garden and also for market and roadside stands. Roots 7 to 8 inches long, slightly tapering and just enough top to bunch well. Deep orange all through, very tender and sweet. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

Oxheart For Table Use When Young For Stock Feed When Mature

147. OXHEART or GUERANDE—(72 days.) Of very rapid growth, this carrot often attains a weight of ½ pound. Thick-shouldered and short, it is 4½ inches long and 2½ inches in diameter at shoulder. Has a good flavor and is very tender when young, but mature roots are used chiefly for stock feed. Prolific, easily harvested and a good keeper. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.40, prepaid.



149. RED CORE CHANTENAY
Pkt. 10c

BAR-SPROUT
Prevents sprouting of Carrots
in storage. See page 71.



156. IMPERATOR—PKT. 10c

Use MAGGOT DESTROYER and Rid Your Garden of ROOT MAGGOTS

Protect your crops. Use Maggot Destroyer on Carrots, Onions, Radishes and Turnips, to eradicate root maggots. Simple to apply. Full directions with order.

5-oz.
Jar
60c
ppd.

Carrots for Stock Feeding

CULTURE—Sow seed in drills 3 feet apart, using about 4 pounds per acre. Large yield from small pieces of ground. Tonnage per acre enormous. May be used for cattle or poultry.

159. YELLOW BELGIAN—(95 days.) A heavy cropper, easily harvested. Best results in deep soil. Sow 4 pounds to the acre. Roots: 10 to 14 inches long, 3 to 4 inches thick at top; skin: green above ground, pale yellow below. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.65, prepaid.—Not prepaid, lb. \$2.50.

POUND
\$2.65
Prepaid

Superior Carrot Collection

- 141. Nantes Coreless,
- 143. Touchon,
- 149. Red Core Chantenay,
- 156. Imperator,

One pkt. each
of above for

34c

One ounce of
each for 90c



143. TOUCHON—PKT. 10c



145. CHANTENAY—PKT. 10c



Chinese ← Cabbage

Also known as Celery Cabbage

A fine vegetable when cooked but especially delicious as a salad.

131. CHIHILI—Early growing and sure heading, resembling Cos Lettuce, producing large, solid white heads, long and pointed at the top. Leaves are broad, compact, tightly folded and beautifully white and very crisp. Sow after July 1st to avoid flowering. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.75, prepaid.

Chihili

139. CHINESE CELERY CABBAGE FOR POULTRY—A cheap, green feed of great value for poultry, more productive than lettuce, spinach or mangels. Sow the seed in rows ½ inch deep and 24 inches apart, using 3 lbs. seed per acre. An ounce of seed will provide green feed for 100 hens for 4 months. Commence feeding Chinese Cabbage when plants are 4 inches high, pulling out every other plant. Plants form heads of 5 to 7 lbs. in 2 months, which can be stored until wanted. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.60, prepaid.

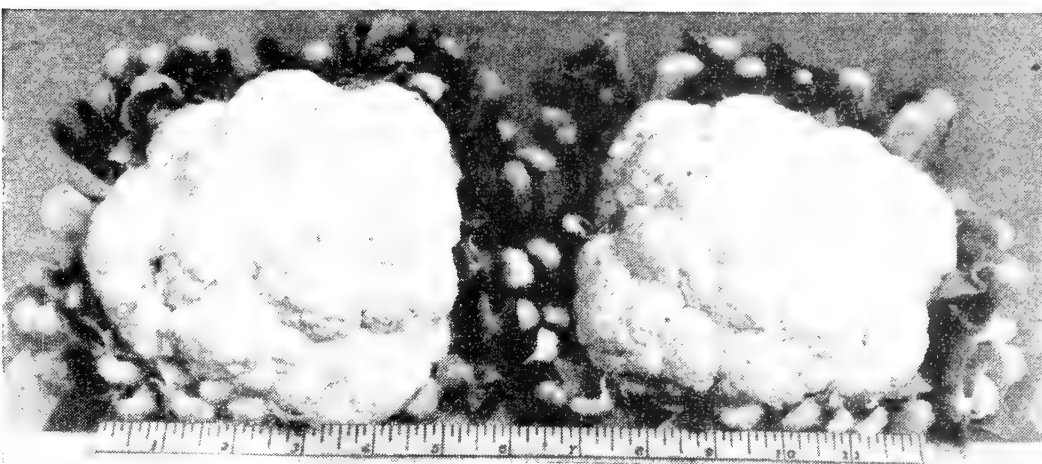
Celeriac Turnip Rooted Celery

The roots are used in salads or boiled like parsnips, or turnips, and have a celery flavor. They keep well all winter. Celeriac may be cooked and served with cream sauce, or used as a salad.

188. LARGE ERFURT—Roots large, smooth, turnip-shaped, excellent flavor. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, prepaid.



Celeriac



Cauliflower—White and Purple

One ounce of seed will produce 3,000 plants.

CULTURE—The same methods that produce good cabbage will grow good cauliflower. The only great difference is that cauliflower heads must be protected from sunlight so as to make sure of the desirable white curd. Gather the tops of the leaves together loosely as soon as the heads begin to form. In shutting off the light, it is important not to cramp the heads.

166. SUPER SNOWBALL—(52 days.) This is an extra early strain of the Snowball type. Besides being extra early, the heads of "flowers" mature with greater uniformity, making it possible to harvest a large percentage of the crop in the first cutting. The plants are vigorous and strong, the leaves are well folded or curled over the heads, which are large, uniform in size, deep and solid. Pkt. 20c, ¼ oz. 85c, ½ oz. \$1.50, oz. \$2.75, prepaid.

167. EARLY SNOWBALL—(55 days.) Most widely used early variety. Plants are dwarf with short, pale green leaves. A dependable header. Although extra early, it can be planted for late fall and winter use. There is none to equal it in value for forcing under glass for a winter crop. Head: 6 to 7 inches thick, of medium size, firm, compact, solid, pure white, and of finest quality. Pkt. 15c, ¼ oz. 75c, ½ oz. \$1.35, oz. \$2.00, prepaid.

169. PURPLE CAULIFLOWER—(70 days.) Large, compact heads of a beautiful purple color, surrounded by attractively crinkled dark green leaves. Of superior flavor and excellent quality. In cooking, the purple color changes to an attractive green. The seed may be started early under glass, or sown outdoors in June. Purple Cauliflower is quick-growing and disease-resistant. Pkt. 25c, ¼ oz. 95c, ½ oz. \$1.70, oz. \$2.95, prepaid.

For Cauliflower, Celery, Cabbage, Tomato and other Vegetable Plants—see page 27.

For an Early Crop Protect Young Plants from Frost, Wind, Rain and Insects. Use HOT-KAPS—See Page 75.

Crisp Tender Celery

One ounce of seed will produce 3,000 plants.

CULTURE—Sow the seed in flats, during February or March. Celery seed germinates slowly and the surface of the soil must be kept constantly moist. Cover the seed very lightly, with fine sand rather than with soil, to prevent a hard surface. When plants are 2 or 3 inches high, transplant them to other flats. In May, set them out in rows 3 feet apart, 6 inches apart in the rows.

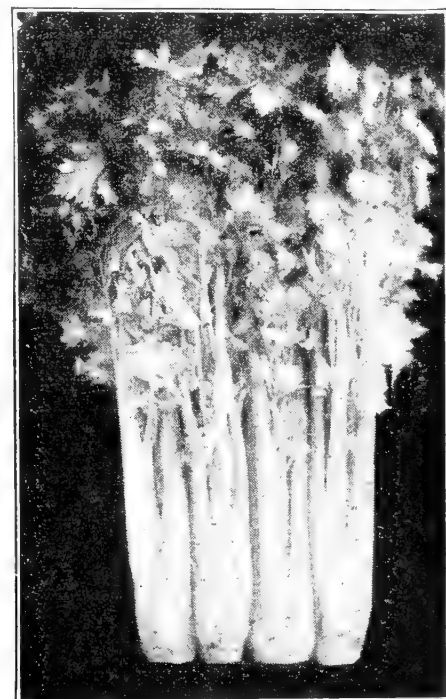
182. SELECT GOLDEN SELF BLANCHING—(118 days.) Best for early table use, and most popular for market. Bleaches as well as any yellow variety. The plants grow to medium size, and are stocky and compact. The heart is rich golden yellow, with light yellowish green outer stalks and leaves. Stalks are broad and heavy, but remarkably crisp and tender, entirely free from stringiness and of fine flavor. Pkt. 10c, ½ oz. 50c, oz. 90c, prepaid.

184. UTAH EARLY GREEN—A very desirable green type. The stalks are medium broad, rounded, thick and solid. The plant is stocky, full hearted and compact and blanches readily. Quality and flavor are exceptionally good. Pkt. 10c, ½ oz. 40c, oz. 70c, prepaid.

← Celtuce A New Vegetable

Combines the uses and flavors of celery and lettuce.

190. CELTUCE—The plants grow quickly, forming a rosette of light green leaves, which when young, may be used as lettuce or boiling "greens." In less than 90 days the stalk is ready for use. The leaves must be removed and the stalks peeled of their tough outer skin. The heart is pale green, crisp and succulent—delicious served raw like celery, or cooked. The flavor, though suggestive of celery, is different and milder. A first sowing of seed should be made as soon as the ground can be worked in spring, and successive sowings at 10-day intervals to provide a continuous supply throughout the season. Pkt. 15c, ¼ oz. 30c, ½ oz. 55c, oz. \$1.00, prepaid.



Golden Self-Blanching Celery

Generous rings of Chinese Cabbage and meaty slices of rich red Tomatoes make an appetizing salad combination.

HYBRID SWEET CORN for Greater Yield

Market Growers: write for quantity prices.
1 lb. plants 200 hills—12 to 15 lbs. per acre.

Hybrid Sweet Corn

201. EARLY GOLDEN 113—(65 days.) We recommend this for your first Early Hybrid. Ears are 8 to 10 inches long, well-filled and uniform, with deep, tender kernels of good flavor. Similar to Minihybrid 202 in plant and ear size, but excelling it in earliness.

MINHYBRID 202—Five days earlier than normal Bantam but still surpassing it in both quality and yield. Produces 15,000 marketable ears per acre! Fancy quality, extra tender, with high sugar content. Ears: 6 to 8 inches long, 8-rowed, with a few ears 10-rowed; Kernels medium, large, yellow. All ears mature uniformly. Prices below.

204. GOLDEN CROSS BANTAM—(84 days.) An extra heavy yielding Golden Bantam hybrid favored by the leading canning factories. Famous for its large ears, uniformly filled with tender golden kernels of high sugar content. Well adapted to market growing. Stalk 6 ft. high, ears 8 inches long, 10 to 14-rowed. Prices below.

205. IOANA—All-America Winner. A midseason 12 to 14-rowed light yellow hybrid sweet corn developed at the Iowa State College. Similar to Bantam Evergreen. Vigorous, resistant to lodging and wilt, and withstands heat and drought. The uniform cylindrical ears are 8 inches long with deep kernels of finest flavor. Valuable for home garden and canning. Prices below.

206. MARCROSS C6.13—(72 days.) One of the earliest hybrids. Developed by the Connecticut Experiment Station as a first early market and home-garden variety. Stalks are only 5 feet tall, but sturdy; highly resistant to Stewart's disease. Ears: 7 inches long, plump, abruptly tapered at tips; 10 to 14-rowed, with light cream-yellow, medium broad kernels of good quality. Prices below.

207. KANNER KING—(85 days.) A main crop hybrid of superb quality for market, canning or freezing. Large, uniform 8-inch ears, packed with 12-14 rows of rich yellow kernels. Very sweet, tender and of excellent flavor. Prices below.

PRICE OF ALL HYBRID SWEET CORN

Your choice any variety listed above.

Pkt. 12c, ½ lb. 30c, lb. 50c,
5 lbs. \$2.30 prepaid.

Summer-Long HYBRID BLEND

NO. 209. Hybrid sweet Corn matures very evenly—making a short picking season. To overcome this we offer a special mixture of the hybrids described above. Plant a patch to this superb mixture all at one time, it will supply you with sugary sweet corn maturing continuously in 65 to 90 days. Pkt. 12c, ½ lb. 30c, lb. 50c, 5 lbs. \$2.25, prepaid.

For Sweet Corn Color Photos
See page 2 and page 80.

CULTURE—A rich warm soil will give the best results. Work soil thoroughly before planting. Plant in hills 3 to 3½ feet apart each way, or sow in rows 3½ feet apart, placing the seed about 8 inches apart in the rows. Plant as soon as danger of frost is past; for succession, plant every two weeks until July. Give frequent and thorough but shallow cultivation.



Golden Cross Bantam—tender and sweet—an excellent canning variety.

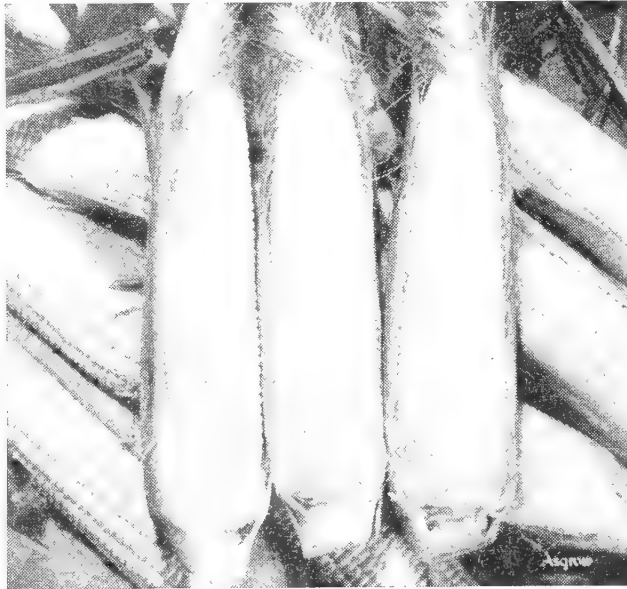
NOW you can grow the finest, sweetest corn you ever tasted,—in the smallest back yard garden, in 50 to 60 days! Be sure to try the amazing new "Golden Midget,"—see description below.

Open Pollinated Sweet Corn STANDARD EARLY VARIETIES

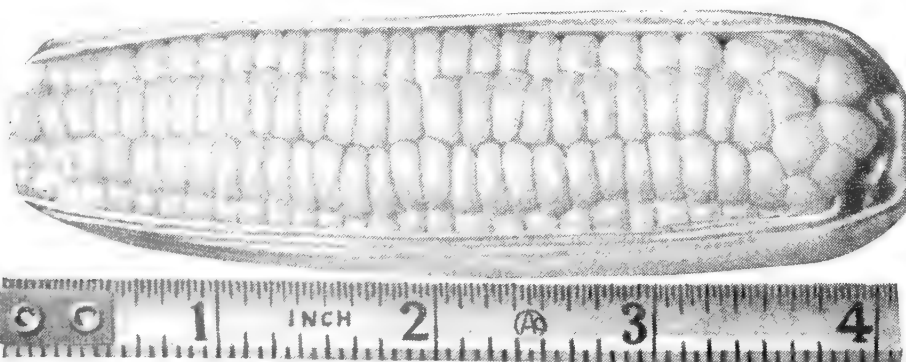
223. EARLY SUNSHINE — (66 days.) Another noteworthy development of the North Dakota Experiment Station. An early yellow variety, with a larger ear, and about 5 days ahead of Golden Bantam. Highly prized by market growers and excellent for home garden. Flavor, tenderness and quality are superb. Ear: 7 inches long; 10-14 rowed, kernels golden yellow, sweet, tender and of good flavor. Stalk, 5½ feet high. Pkt. 10c, ½ lb. 20c, lb. 35c, 5 lbs. \$1.60, prepaid.

226. EXTRA EARLY GOLDEN BANTAM — (72 days.) To most home gardeners, sweet corn means Golden Bantam. Also desirable for trucking and canning. It is medium early, dependable and of wonderful quality. Ear: 6½ inches long, 8-rowed. Kernels broad with tender hull, sweet and of exceptionally fine flavor. Stalk: 5 to 5½ feet high. Pkt. 10c, ½ lb. 20c, lb. 35c, 5 lbs. \$1.60, prepaid.

227. EARLY GOLDEN MARKET—(70 days.) Also known as Golden Hummer. One of the finest extra early yellow varieties for market. Ears have strong husks, 8 to 12-rowed and 6½ inches long. Kernels are golden yellow, tender, sweet and of good flavor. Stalk: 5 feet. Very heavy yielding for such an early sort. Fine for home gardens also. Pkt. 10c, ½ lb. 20c, lb. 35c, 5 lbs. \$1.60, prepaid.



Ioana Hybrid is highly resistant to drouth and wilt.



Faribo Golden Midget Tiny 4-inch Ears on Dwarf 30-inch Plants in less than 60 Days!



215. FARIBO GOLDEN MIDGET—(59 days.) A really fine, super-quality, butter-yellow Sweet Corn. The Midget ears have the luscious sweetness of old-time True Golden Bantam, with a flavor that is unsurpassed. Midget Corn grows about 3 feet high, and can be planted 6 to 8 inches apart, each plant producing 3 to 5 ears of delicious Sweet Corn. Very early maturing, it can be planted in succession all through the season. Served garden-fresh to your guests, the 4-inch ears are a startling novelty, and the length is just right too, for packing in the quart-size freezer carton. Big pkt. 35c, ½ lb. 65c, lb. \$1.10, prepaid. (Seeds are small and go farther.)

For Color Photo see page 80.

Late SWEET CORN Varieties



Stowell's
Evergreen

Sweet Corn All Summer

Planted at one time, varieties
in this collection will supply
your table all summer.

Collection
No. 230

(Standard
Sorts)

F. S. & N. Co.

September 5, 1947

This spring I ordered some of your new sweet corn seed, the Faribo Golden Midget. I planted it on the evening of July 4th, and yesterday, September 4th, we had our first meal, and I must say I am delighted and very much pleased, it was sweet, tender and delicious.

Mrs. Ingal Iverson, Menomonie, Wisc.

Early Sunshine—Extra Early.

Early Golden Bantam—
Medium Early.

Bantam Evergreen—Late.

1 pkt. of each (3 pkts.) . . . 26c
1/2 lb. of each (1 1/2 lbs.) . . . 55c
1 lb. of each (3 lbs.) . . . \$1.00

241. BANTAM EVERGREEN—(85 days.) Developed from a cross of Golden Bantam and Stowell's Evergreen. It has the rich golden yellow kernels of Bantam, and the size and tender hull of Evergreen. Sweet, and of fine quality. Evergreen type of ear with 14-18 rows. Ready for market when most other yellows are overmature. Pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.60, prepaid.

242. STOWELL'S EVERGREEN—(90 days.) Most popular late variety for home and market gardening or canning. Holds its prime condition at eating stage a long time. Ear: 9 inches long, 16 to 20-rowed; kernels clear white, deep medium width, sweet and tender. Stalk: 8 to 10 feet high, sturdy and erect. Pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.60, prepaid.

243. COUNTRY GENTLEMAN—(93 days.) A late, prolific variety of excellent quality, used widely by canners; also desirable for home and market gardens. Ear: 7 1/4 inches long; kernels very deep, slender, sweet, with tender hull, and set irregularly without row formation. Stalks: 7 1/2 feet high. Pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.60, prepaid.



Treat All Your Seed Corn with ARASAN

New Seed Disinfectant and Protectant

Arasan will help you get better stands of vigorous, healthy normal seedlings and greatly increase your yield per acre.

Boosted corn
yields 8 1/2 bu.
per acre.

Price: 1-oz. pkt. (treats one Bu.) 16c
8-oz. can, 85c prepaid.

Save Your Sweet Corn Crop Use

DDT KILLER DUST

To Control Ear Worm

Corn Ear Worm Eggs are laid in the silk when forming. Three or four light dustings with **Killer Dust** at 3-day intervals at silk-forming time will free ears of worms.

1 lb. Sifter Can, 40c
5 lb. Bag \$1.50
Prepaid

Now YOU CAN HAVE

Delicious
Canned
Corn



This New Patented Corn Cutter eliminates corn canning drudgery—removes just the tender young corn, leaving the tough husks on the cob. Fastest known method—five strokes finishes an ear in less than 10 seconds. Send for your Corn Cutter today.

Only **\$1.00** prepaid.

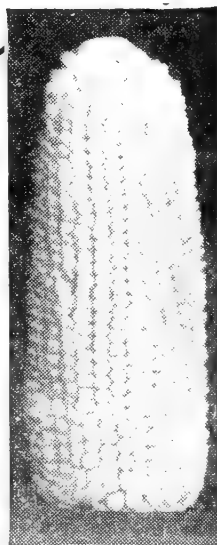
Pop Corn is a Profitable Crop

CULTURE—Plant Minhybrid 250 Pop Corn 3-5 lbs. to the acre in drills; South American Pop Corn 5-8 lbs. to the acre. Plant in rows 3 to 3 1/2 feet apart, dropping the seed 8 to 10 inches apart in the row. We have discarded all but the outstanding varieties.

250. MINHYBRID 250 WHITE HULLLESS CERTIFIED—(95 days.) The last word in Pop Corn. Developed by the Minnesota Experiment Station, it far surpasses the old Jap Hulless—records show a 16% greater yield per acre, and a 29% greater popping expansion. Minhybrid White Hulless is the finest Pop Corn obtainable from the standpoint of quality, flavor and tenderness. Pkt. 10c, 1/4 lb. 20c, 1/2 lb. 35c, 1 lb. 60c, 2 lbs. \$1.15, 5 lbs. \$2.80, prepaid. Not prepaid, 10 lbs. at 50c per lb.

253. HYBRID GOLD—(115 days.) Developed from South American Yellow, this new hybrid pops to large, flaky, tender kernels of a rich butter color. It is unusually high in popping volume. Hybrid Gold is a profitable variety to grow for the market as it produces greater yields than open pollinated corn. Adapted to southern Minnesota, northern Iowa, Wisconsin and South Dakota. Seed supply very limited. Pkt. 10c, 1/4 lb. 20c, 1/2 lb. 35c, 1 lb. 65c, 2 lbs. \$1.20, 5 lbs. \$2.80, prepaid. Not prepaid, 10 lbs. at 50c per lb.

Hybrid Hulless pops to
flaky, tender kernels of
delicious flavor



Minhybrid 250
White Hulless
Pop Corn

251. FARIBO HULLLESS WHITE—(90 days.) This dwarf corn is used extensively by pop corn vendors. The ears are only 3 to 4 inches long, but every kernel on the cob will pop, so there is no waste. Faribo Hulless Pop Corn is almost again as productive as White Rice. The kernels are longer and more slender, and have no hulls. Pkt. 10c, 1/4 lb. 15c, 1/2 lb. 25c, 1 lb. 45c, 2 lbs. 85c, 5 lbs. \$2.00, prepaid. Not prepaid, 10 lbs. at 30c per lb.



Eat More Pop Corn

Hybrid Hulless is a Super-quality Pop Corn, high in popping volume, tender and fine-flavored.

HYBRID HULLLESS

(This corn is for popping only; it is not suitable for seed.)

3 1/2 lbs. for \$1.00

Ppd. to 4th zone

Not Prepaid:

10 lbs. @ 23c per lb.

100 lbs. @ 20c per lb.

Enjoy Sweet Corn late in the season as well as early. Bantam Evergreen is an excellent choice.

CUCUMBERS

One ounce will plant 50 hills;
three pounds for an acre.

CULTURE Cucumbers require warm rich soil. When all danger of frost is past, plant in low flat hills, 4 to 6 feet apart each way. Scatter 10 to 12 seeds in a one foot circle in each hill and cover one-half inch. If the soil is naturally poor, work a forkful of decayed manure into each hill before planting. When plants are about 5 inches tall, thin out, leaving the five strongest to each hill. Keep the soil cultivated as long as it can be done without injuring the spreading vines. Kill Squash Bugs and Cucumber Beetles with Pyrocide Dust, see Prices Below.

NOTE: Days from planting to picking are listed here. The letters W. S. and B. S. indicate the white spined and black spined varieties.

Small Pickle Type

274. MINCU BABY CUCUMBER—Matures in about 50 days. The short oval fruits, averaging 4 inches long by 1 3/4 inches in diameter, are ideal for pickles. They are white spined with crisp white flesh and medium green skin. The vines are compact and not inclined to run extensively. A very early heavy cropper. Mincu was developed at the Minnesota Experiment Station. Pkt. 10c, oz. 25c, 1/4 lb. 85c, lb. \$3.00, prepaid.

For Color Photo of Mincu see page 80.

276. CHICAGO PICKLING—(59 days.) B. S. (Westerfield Pickling.) Most widely used of the pickling varieties. Also good for slicing. Fruit: 6 1/2 inches long, 2 1/2 inches thick, medium green, square ended, attractive and prolific. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.00, prepaid.

All-Season Cucumber Collection

One Pkt. Each { Chicago Pickling
Taxpayer
Straight Eight
Longfellow

36¢
ppd.

For Dill Seed, See Page 13



← "A and C"
or Colorado—
Symmetrical, dark
green in color, with
crisp, delicious flesh.



For Salad Slicing and Pickling



New Faribo HYBRID Cucumber

See Color Photo Front Cover.

282. FARIBO HYBRID "C"—Produces a continuous crop of uniformly large handsome fruits from vigorous, disease-resistant Hybrid Plants. Developed by Dr. A. E. Hutchins of the Minn. Exp. Station and F. S. & N. Co. The color is an intensely rich deep green, and the flesh fine-grained, sparkling white and crisp. Smooth and symmetrical in shape, with blunt ends, the cucumbers are just right for pickles when young, and make perfect 8 to 9-inch slicers when full grown. Pkt. 25c, prepaid.

280. TAXPAYER—(64 days.) W. S. This striking cucumber is uniformly 9 inches in length, with tapering ends and of an intense dark green color. Produces cucumbers over a long period of time, and many of them. Developed from Early Fortune which was the best seller of all White Spines because of its extreme earliness, and abundant yields. Pkt. 10c, oz. 20c, 1/4 lb. 70c, lb. \$2.40, prepaid.

281. DAVIS PERFECT—(65 days.) W. S. An excellent mid-season variety for shipping or home table use. Splendid quality and appearance. Fruit: 9 to 10 inches long, 2 1/2 inches thick, dark green, tapered at both ends; flesh crisp and of good quality. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.00, prepaid.

283. STRAIGHT EIGHT—All-America Gold Medal Winner. (66 days.) The most desirable slicing cucumber you can plant. The straight symmetrical fruits grow about 8 inches long and about 1 1/2 inches in diameter. A very convenient size and shape. The color is a rich, deep green. Pkt. 10c, oz. 25c, 1/4 lb. 75c, lb. \$2.50, prepaid.

284. IMPROVED LONG GREEN—(67 days.) (Black spined.) This is a standard late variety for home garden; excellent for slicing; hardy and prolific. Dependable. Pkt. 10c, oz. 20c, 1/4 lb. 70c, lb. \$2.25, prepaid.

285. "A & C" or COLORADO—W. S. (68 days.) A long, slender cucumber of excellent shape and intense dark green color. The fruits are 8 to 9 inches long and average 2 inches in diameter; they hold their color longer than any other type. Seeds form late in the season and are few. Pkt. 10c, oz. 25c, 1/4 lb. 75c, lb. \$2.25, prepaid.

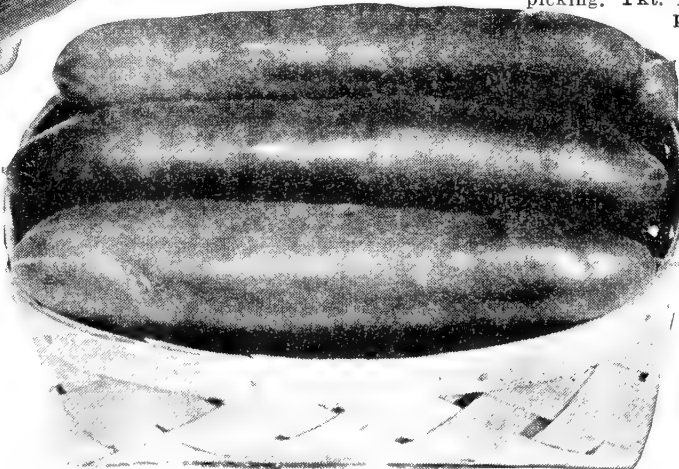
286. THE LONGFELLOW—(70 days.) W. S. (Vaughan.) Ideal for home garden, forcing or shipping. One of the best long, late varieties. Excellent quality. Perfectly uniform, long, slender shape. Fruit: 12 to 15 inches long, 2 3/4 inches thick; dark green, symmetrical and attractive. Holds color and crispness well after picking. Pkt. 10c, oz. 25c, 1/4 lb. 75c, lb. \$2.25, prepaid.

PAXTON HOT HOUSES

Hot Houses force growth of plants to bring them on the market two to four weeks earlier than normally. Early crops bring the greatest return.

Hot Houses are new, improved, strong, sturdy, and wire reinforced to withstand extremes of weather. They allow maximum growth. Size 12 inches in diameter and 11 inches in height. Temperature inside of Hot Houses is from 10 to 20 degrees warmer than outside and heat is retained for a long period after outside temperature lowers.

Packed 25 with cardboard setter for 80c. Hot Houses only, 100 for \$2.35, 250 for \$5.00, prepaid. Not prepaid: 500 for \$8.00, 1000 for \$15.00. Metal Setter \$2.25. (Weight 40 lbs. per 1000.)



Straight Eight—a beautiful streamlined variety.

Non-Poison PYROCIDE DUST

To Protect Your Cucumber Vines

Now you can protect melons, squash and cukes with non-poison Pyrocide, a new type dust, so powerful it controls these hard-to-kill pests, and most all types of sucking and chewing insects on fruits and vegetables including Aphids, Cabbage Worms, Mexican Bean Beetles, Leaf Hoppers, as well as house pests: flies, ants, etc.

Price Prepaid: 1 lb. 60c, 5 lbs. \$2.50

Vegetables for the Epicure

Cress Pepper Grass

265. FINE CURLED—Crisp, pungent leaves, finely cut and curled, dwarf and compact. Used mostly for garnishing and as a condiment. Pkt. 10c, oz. 25c, ¼ lb. 90c, prepaid.

Celeriac—See Page 9

Egg Plant

One ounce will produce 1,000 plants.

Sow seed in hotbed in March, when an inch high, pot in 3-inch pots. Set out about June 1st, 2½ feet apart.

302. BLACK BEAUTY—Desirable for the northern states. Earlier than New York Spineless. The fruits are broad, thick, of most attractive form and finest flavor. Their rich, lustrous, purple color is very uniform. Pkt. 10c, ½ oz. 35c, oz. 60c, ¼ lb. \$2.20, prepaid.



Fruits of Black Beauty Egg Plant are rich purple in color, with a handsome lustre.

Herbs

To Flavor, Season and Garnish

To keep over winter, cut on a dry day, just before they are in full bloom. Dry in the shade and store in air-tight Mason jars.

306. DILL—Seeds have an aromatic odor and pungent taste. Used for pickles. Pkt. 10c, oz. 25c, ¼ lb. 75c, prepaid.

308. MARJORAM—The young, tender tops are used green for flavoring, or they may be dried for winter use, for flavoring broths, dressings, etc. Pkt. 10c, ½ oz. 60c, prepaid.

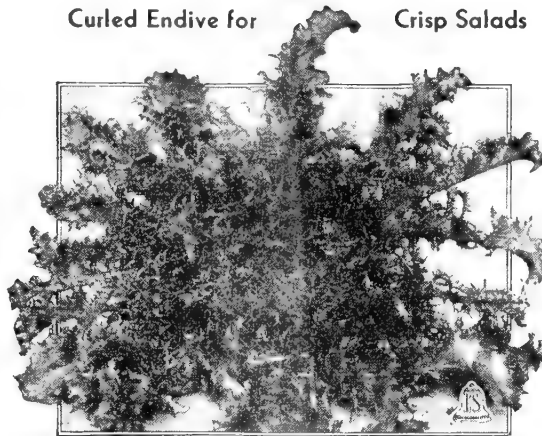
309. SAGE—The leaves and tops are used very extensively for seasoning. Pkt. 10c, ½ oz. 60c, oz. \$1.00, prepaid.

310. SUMMER SAVORY—A hardy annual. The dried stems, leaves and flowers are fine for flavoring soups, dressings, etc. Pkt. 10c, ½ oz. 75c, prepaid.

311. THYME—The young leaves and tops are used for seasoning soups, in dressings, etc. Pkt. 10c, ½ oz. 60c, prepaid.

For Chives Plants see page 27

Curled Endive for Crisp Salads



Endive

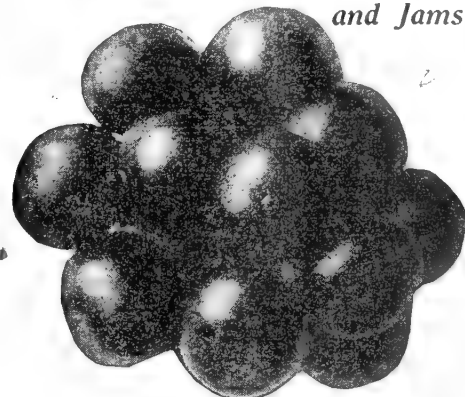
One ounce of seed will plant 100 feet of drill.

An excellent salad for fall and early winter use. Sow seeds outdoors the middle of April; small sowings can be made every three weeks. For fall and winter crop sow in July.

304. FLORIDA DEEP HEART—(88 days.) A great improvement over the Broad Leaved Batavian; the plant is large and vigorous, with broad, thick leaves; many infolding leaves form a deep compact heart, well-blanching and of excellent quality. Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. \$1.75, prepaid.

305. GREEN CURLED—A very beautiful sort of which the leaves are very light colored, even the outer ones being nearly white. They are crisp and tender. Pkt. 10c, oz. 15c, ¼ lb. 40c, lb. \$1.50, prepaid.

Garden Huckleberries Make Delicious Pies, Preserves and Jams



313. The berries are borne in clusters and when ripe are a shining black color, about ½ to ¾ inch in diameter. Plants grow 3 feet tall and thrive on any soil. Culture same as for tomatoes. Pkt. 10c, ½ oz. 40c, oz. 65c, prepaid. See recipe below.

Recipe for Huckleberry Pie

Wash and stem 2½ quarts berries, cover with water and let come to a boil. Add ½ teaspoon soda, boil one minute and drain. Add one cup cold water to berries, cook until soft, then mash and add 1½ cups sugar, juice of ½ lemon and boil about 15 minutes. Remove from stove and cool. When ready to put in pie crust add one tablespoon tapioca. Dot with butter, add top crust and bake.

Garlic Sets, see page 16.

Girasol, see page 27.

Ground Cherry, see page 25.

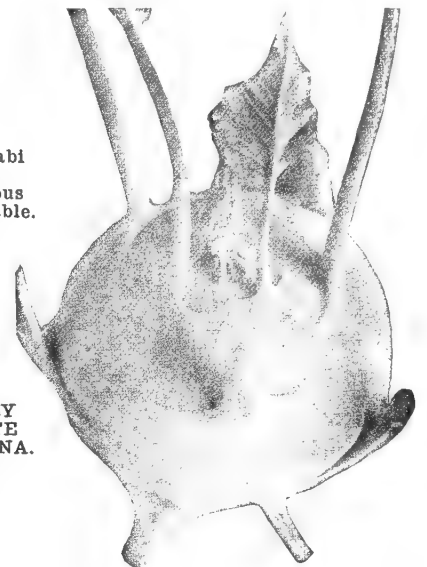
Horse Radish Roots, see page 27.

Kale or Borecole

This member of the cabbage family does not form heads, but is grown for greens. Can be sown late, as plants continue to grow late in the season. A heavy frost improves the flavor and quality of the thick, crumpled leaves.

314. DWARF GREEN CURLED—Plant is low and compact with large, bright green leaves, curled, and wrinkled. A healthy vegetable, and one of the most palatable when well cooked. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, prepaid.

316. TALL GREEN CURLED SCOTCH—Hardy plants with leaves deeply cut; curled at edges, light green in color. Very tender after exposure to frost. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, prepaid.



Kohlrabi is a delicious vegetable.

This is **EARLY WHITE VIENNA**.

Kohlrabi

One ounce for 200 feet of row.

Sow the seed in light, rich soil as early in spring as possible. Thin to 6 inches apart in the row. Sow at intervals of 10 days for successive crops. Ready for use when 2 to 2½ inches in diameter.

317. EARLY PURPLE—(62 days.) Dwarf plants having short, green leaves with purple stems and veins. Bulbs globular purple, with white, tender flesh. Pkt. 10c, ½ oz. 25c, oz. 45c, prepaid.

318. EARLY WHITE VIENNA—Very handsome, white fruit. Excellent both for forcing and open ground; flesh white and very tender; leaves short. Pkt. 10c, ½ oz. 25c, oz. 45c, prepaid.

Leek A Species of Onion

Though belonging to the onion family, the flavor is milder and subtly different when used in soups and stews.

For white tender Leeks, transplant when six inches tall to shallow trenches setting plants 3 inches deep and gradually let the soil fill in. In fall, ridge the soil about the plants so as to blanch the stems.

319. LONDON FLAG—Stems 8 to 10 inches long, 1½ inches thick, white and attractive. Pkt. 15c, ½ oz. 60c, 1 oz. \$1.00, prepaid.

Get Your Order in Early for a Packet of New Mammoth Ground Cherry
(Described on Page 25)—The Seed is Scarce.

Crisp LETTUCE

Healthful and Refreshing

One ounce will sow 150 feet of row; 4 lbs. plant an acre.

CULTURE OF HEAD LETTUCE

For early crops start seed in hotbed, covering $\frac{1}{4}$ inch. When 2 inches tall, transplant seedlings to 4 inches apart. When ground is warm, transplant to garden, 1 foot apart. For general crop, sow outdoors in April and May and thin out to 10 inches apart.

Leaf Lettuce

322. SLOBOLT—(45 days.) As indicated by its name, this variety continues to develop good palatable leaf lettuce during the entire summer season, without bolting to seed. The leaves are light green, attractively crumpled and frilled. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.75, prepaid.

323. BRONZE BEAUTY—(40 days.) This colorful new leaf lettuce has the long scalloped leaves of Oak Leaf, but the color is a warm, ruddy bronze, completely suffusing the soft green undertone. Resistant to hot weather, tender, crisp and delicious. Pkt. 15c, oz. 85c, prepaid.

324. OAK LEAF—(40 days.) The rich green of its leaves, its tenderness and resistance to hot weather, have made Oak Leaf the most popular lettuce for home gardens. If plants are thinned to stand 6 inches apart, they form loose heads, and the base of each leaf turns crisp and cream colored, with a tenderness unequalled by any other. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, prepaid.

325. GRAND RAPIDS—B.S. (43 days.) One of the most popular loose-leaved varieties. Excellent for early planting and greenhouse forcing. It is very early, hardy, and disease resistant and is exceptionally tender when grown under glass. Handsome leaves are light green, broad, wavy, curly and heavily fringed. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, prepaid.

326. BLACK SEEDED SIMPSON—(46 days.) Large rich green leaves, thin, tender and crisp, forming a loose head. One of the most vigorous varieties in hot weather and slow to run to seed. Especially adapted to the home garden. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, ppd.

327. SIMPSON'S EARLY CURLED—(45 days.) A white seeded leaf lettuce of excellent quality. Large, light green leaves, crumpled and frilled, forming a compact central bunch. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, prepaid.

329. PRIZEHEAD—W.S. (46 days.) An early, quick-growing, non-heading sort. Leaves are broad, crumpled and frilled; outside leaves tinged red, inner leaves wholly green; very crisp, sweet and tender. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, prepaid.



Great Lakes

"Great Lakes" Heat-Resistant Head Lettuce

Especially Bred for the Middle West

334. GREAT LAKES—(75 days.) This new lettuce is distinguished for its ability to produce tight heads in hot weather, for its resistance to tipburn and for its reluctance to run to seed. Of the Iceberg type, with large thick leaves folding well over the head. Especially bred as a summer lettuce for the Middle West. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.50, prepaid.



Oak Leaf retains its delicate flavor even in hot weather—never turns bitter.

Romaine or Cos Lettuce

For the Salad Bowl

330. WHITE PARIS—W. S. (70 days.) Considered the finest of all lettuces in flavor. Famous chefs prefer it for salad because of its tenderness and delicious flavor. Self-folding, with dark green leaves forming oval-shaped

heads with greenish-white interior. The entire plant is tender and palatable. Cos Lettuce is easy to grow, slow to bolt to seed during hot weather and does not require much space in the garden as it is upright-growing. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, prepaid.

325 Grand Rapids →
Daintily Curled, Tender
and Delicious.

341. CHICKEN LETTUCE

—Chickens need green food. This lettuce will yield a large amount of greens throughout the season, as it makes successive crops after cutting. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.60, prepaid.

Note:—B. S. and W. S. refer to black or white seeded varieties.

CULTURE OF LEAF LETTUCE

Sow outdoors as soon as the ground opens, covering seed $\frac{1}{4}$ inch. When plants are 3 or 4 inches tall, thin out to stand 6 inches apart. In harvesting, cut lettuce above the crown and it will grow new leaves. For fall use, sow in August.

Head Lettuce

332. TOM THUMB—(65 days.) A miniature butter-head type, with small, firm heads of excellent quality. Leaves are dark green and very crumpled. The midget heads are highly prized for serving whole as individual salads. Popular for indoor and window box planting as well as for outdoor planting in spring and fall. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.75, prepaid.

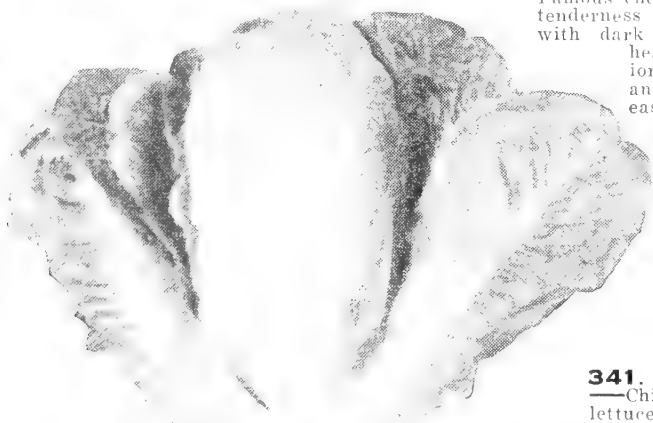
335. CRISP-AS-ICE—B. S. (74 days.) A popular sort for the home garden. Forms compact medium-sized head, well blanched and of delicate flavor. Leaves thick and crumpled; deep green overlaid with dark brown, giving a bronze appearance. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, prepaid.

336. BIBB—(57 days.) Smooth, dark green leaves and a small firm head, which blanches to an appetizing cream. Very tender and of excellent quality, it is always in great demand by the luxury hotels. We recommend it for early spring planting. Pkt. 15c, oz. 45c, $\frac{1}{4}$ lb. \$1.60, prepaid.

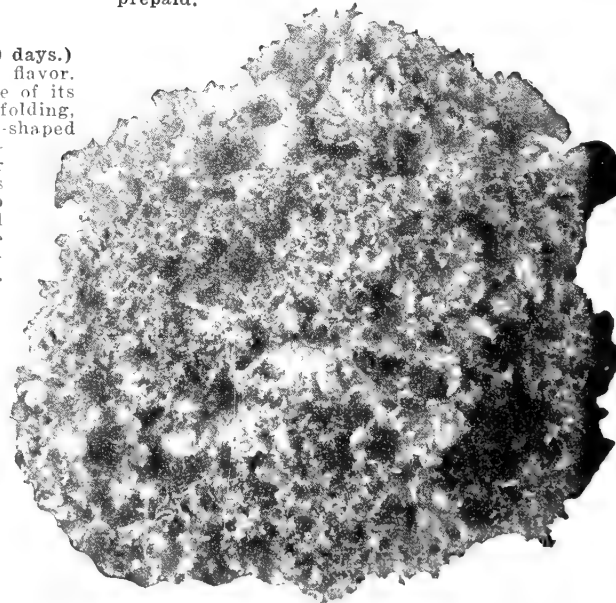
337. ICEBERG—W. S. (84 days.) A splendid crisp-head sort with strong center ribs which bend toward the heart of the plant, keeping it thoroughly blanched. Wavy, fringed, light green leaves, tinged at edges with reddish brown. Heads compact, crumpled, crisp and sweet, with white interior. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. 85c, prepaid.

338. WONDERFUL. NEW YORK OR LOS ANGELES—W. S. (80 days.) The outstanding shipping variety that combines flavor and tenderness with unusual keeping qualities. Our special strain is noted for the large size of heads. The edges of the dark green leaves are slightly curled and the large, tightly folded cabbage-like head is well blanched, crisp and sweet. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00, prepaid.

340. MIXED LETTUCE SEED—All kinds mixed. If not sown too thickly, will make a continuous crop. The best early and late varieties of curly leaf as well as head lettuce. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.65, prepaid.



Cos Lettuce is Crisp and Self-folding. Grow it for midsummer and early fall use.



As a salad lettuce, Romaine or Cos has no superior—the leaves are dark green, sweet and succulent.

Delicious Salmon-Fleshed MUSKMELONS

One ounce will plant 60 hills.
Two to three pounds per acre.

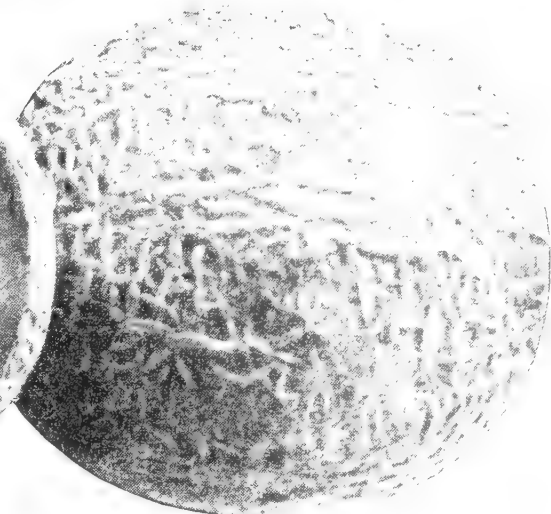
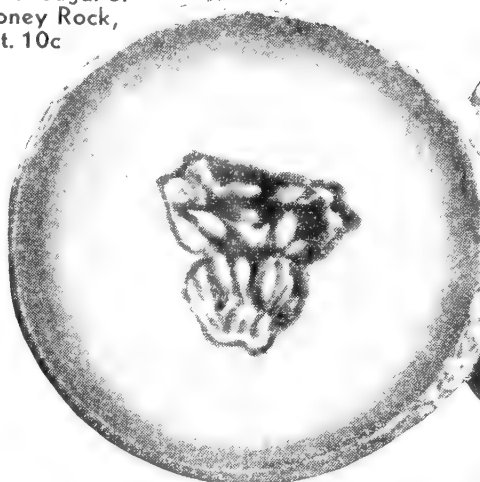
CULTURE—Muskmelons require warm, rich soil, slightly sandy. Plant when all danger of frost is past, in hills 6 feet apart each way, 8 to 10 seeds to a hill. After danger of insects is past, thin out to 3 or 4 plants to a hill. Muskmelons should be left to ripen on the vine, until they come off easily when given a slight pull or twist.

New Midget Melon

356. MINNESOTA MIDGET "356"—60 days. Here's a real find for the garden with limited space. The vines grow only 3 feet long and produce surprising numbers of luscious little 4-inch melons, just right for individual serving. High in sugar content, they have a small seed cavity and deep orange flesh—edible to the rind. Pkt. 25c, 3 pkts. for 65c, prepaid.

See Color Photo on Page 80.

357. Sugar or
Honey Rock,
Pkt. 10c

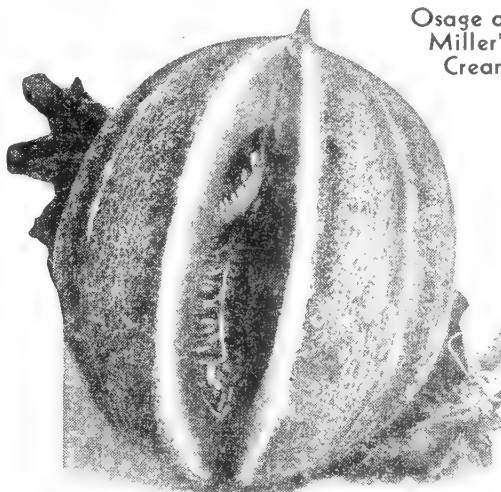


← Early Sunrise

Outstanding New Melon
For Local Market and Home Garden

354. EARLY SUNRISE—83 days. Similar to Bender's Surprise in type, but much earlier and of superior quality and flavor. The thick-oval fruits average 5½ to 6½ pounds in weight, and are covered with a coarse netting, and distinctly ribbed. The rind is hard, and creamy green at maturity. Flesh bright salmon, thick and of delicious quality. An excellent melon for local market and home garden use. Pkt. 10c, oz. 35c, ¼ lb. 85c, lb. \$3.00, prepaid.

Osage or
Miller's
Cream



Three Luscious Melons

With Richly Colored Thick Flesh
Juicy and Wonderfully Sweet

357. SUGAR OR HONEY ROCK—85 days. A money-maker and a source of pride for every grower. Handsome in appearance, distinctive in flavor. Sweet as sugar, solid as a rock and easy to grow. Fruit: nearly round, about 6 inches in diameter. Weight: 4 lbs. Skin grey-green, covered with coarse netting. Flesh: thick, juicy, orange color, with fine flavor. Pkt. 10c, oz. 35c, ¼ lb. 75c, lb. \$2.70, prepaid.

360. OSAGE OR MILLER'S CREAM—92 days. A popular favorite for home or market and a good yielder. Fruits are oval with slight ribs and netting and dark green skin when immature, ripening to mottled orange and green. Melons are 7 inches long, weigh 5 lbs. Small seed cavity with thick, firm, pink flesh of spicy flavor. A good shipper. Pkt. 10c, oz. 30c, ¼ lb. 65c, lb. \$2.45, prepaid.

364. HEARTS OF GOLD—90 days. For the home garden with heavy soil, this is an excellent melon, unsurpassed in flavor and quality. Just right in size too—about 6 inches in diameter and nearly round. Distinctly ribbed, deep green, and covered with fine gray netting. Flesh thick, deep salmon; tender, juicy, sweet and aromatic. Small seed cavity. Pkt. 10c, oz. 30c, ¼ lb. 65c, lb. \$2.45, prepaid.

Melons a Month Earlier!

For an early crop, the small gardener may start melon seed indoors in plant bands. These may later be set out in the garden without disturbing the young plants, and covered with hotkaps for protection from cold, as well as from beetles and squash bugs. See page 75.

"Golden Gopher" →

Wilt-Resistant Melon
Developed at Minn. Exp. Station

355. GOLDEN GOPHER—85 days. Especially bred for resistance to fusarium wilt, this melon is of the Pride of Wisconsin type, with the same thick, fine-flavored orange flesh. Oval in shape, with light but coarse netting, fruits weigh about 3½ lbs. and are 5¼ inches in diameter. Uniform and early. Pkt. 10c, oz. 40c, ¼ lb. \$1.25, lb. \$4.25, prepaid.

Here is your chance
to develop a New Melon

369. MIXED HYBRIDS—Mixed First Generation Hybrids From Our Own Breeding Grounds. These include both early and late, large and small types. All have hybrid vigor and some disease resistance. If you find a melon from this planting that you consider outstanding, save the seed and plant in an isolated plot. Repeat this for 4 years, each year selecting and saving seed from the best melons, and you may develop a fine new variety. Pkt. 25c, 5 pkts. for \$1.00, prepaid.

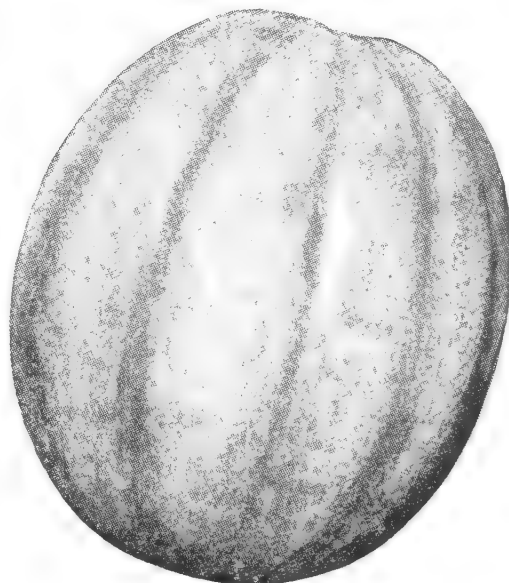
These Have Hard Rinds

Excellent Shipping & Market Varieties
Fine also for Home Garden Use

359. PRIDE OF WISCONSIN—90 days. Developed from a cross of Honey Rock and Hearts of Gold. Grows well in heavy soil. Fruits are oval in shape, and weigh about 3¾ lbs. The rind is very hard, of a pearly gray color, faintly ribbed and heavily covered with a distinctive netting. The orange flesh is solid, thick and very sweet, with a compact seed cavity. Pkt. 10c, oz. 35c, ¼ lb. 75c, lb. \$2.70, prepaid.

358. HALE'S BEST—80 days. Popular early shipping cantaloupe. Flavor and quality excellent, and withstands drought. Can be shipped long distances. Fruit: oval, 6½ inches long, almost devoid of ribbing, covered with heavy netting. Flesh: extremely thick, orange color, sweet and of fine flavor. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.45, prepaid.

Pride of
Wisconsin



Mustard

Used for Greens Same as Spinach

391. FORDHOOK FANCY—A handsome, mild variety, slow to bolt seed stalks; leaves bright green, plume-like, with fringed edges. Delicious as a salad, or cut and boiled like spinach. The reddish brown seed is used for flavoring and in pickles. Pkt. 10c, oz. 15c, 1/4 lb. 40c, lb. \$1.25, prepaid.

392. TENDERGREEN MUSTARD SPINACH—A quick-growing variety, producing large, dark green leaves with small lighter green ribs. It is the only vegetable that is ready for table or market in 21 to 24 days after planting, and will produce from 8 to 9 crops a year. Mildly pungent, combining the flavors of mustard and spinach. May be used in salads or boiled like spinach. Pkt. 10c, oz. 15c, 1/4 lb. 35c, lb. \$1.15, prepaid. Not prepaid, 5 lbs. at 90c per lb.

Okra or Gumbo for Delicious Soups

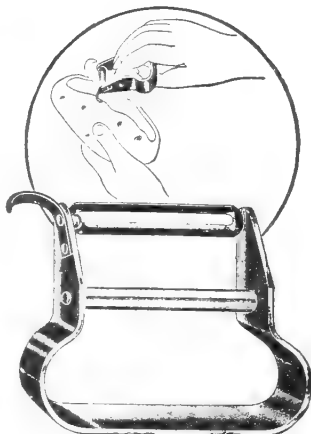
Okra pods are used in soups, stews, salads, catsup and relishes, and are very popular in the South. The pods should be gathered each day, while they are tender and pulpy. They are at their best when from one to three inches long. Okra is a hot weather plant and the seed should not be sown until late May when the ground is thoroughly warm.

395. DWARF GREEN—Grows low, is very productive. Pkt. 10c, oz. 20c, 1/4 lb. 50c, prepaid.

Kitchen Wonder Tool

Peels,
Slices,
Shreds!

only
35¢
ppd.



This practical gadget takes the drudgery out of peeling fruits and vegetables. Quicker than a knife. Peels potatoes, and removes the eyes and decayed spots quickly. A scientific tool with tempered steel blade. Saves your fingers from stain, saves you from hard work in peeling potatoes, carrots, cukes, apples, etc. It strings beans and celery, shreds cabbage, chocolate or soap.

Use MAGGOT DESTROYER to rid your garden of ROOT MAGGOTS



Use Maggot Destroyer on Cabbage, Cauliflower, Broccoli, Carrots, Onions, Radishes and Turnips. Apply to stems and roots before setting out plants, and dust on soil ten days after planting. This treatment will eradicate maggots and protect your crops.

Home Garden Size, 60c Prepaid.
Not Prepaid, 5 Lbs., \$5.00

Order ONION SETS & PLANTS Early



We Feature Small Size Sets Only
More Sets per lb. and Better Quality

One pound for 25 feet of row; 12 bu. per acre
(32 pounds equal 1 bushel)

Shipment after March 15, prepaid to third zone only (300 miles). Add 5c lb. extra postage for shipments beyond.

Onion sets should be planted as early in spring as the ground can be worked and in a few weeks the delicious young onions are ready to serve on the table. Plantings may be successively made late into the summer, as long as the sets remain in good condition.

MARKET GROWERS WRITE FOR SPECIAL QUANTITY PRICES

YELLOW BOTTOM SETS—The onions commonly planted in the home garden for early green onions, also for later use. Price: Lb. 40c, 2 lbs. 70c, 4 lbs. \$1.20, prepaid.—Not prepaid, pk. (8 lbs.), \$1.45, bu. (32 lbs.) \$4.85.

WHITE BOTTOM SETS—Very short crop. We reserve the right to substitute if sold out. Price: Lb. 45c, 2 lbs. 80c, 4 lbs. \$1.40, prepaid.—Not prepaid, pk. (8 lbs.) \$1.65, bu. (32 lbs.) \$5.25.

YELLOW MULTIPLIERS—Flavor much superior to ordinary onions. Price: Lb. 40c, 2 lbs. 70c, 4 lbs. \$1.20, prepaid.—Not prepaid, pk. \$1.45.

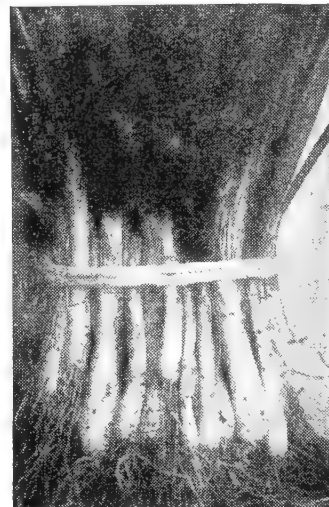
EBENEZER OR VICTORY ONION SETS—In shape and color, this variety resembles Yellow Globe Danvers, but it generally produces 50% more onions per acre. Its great superiority over other onions is the big yields, long-keeping quality, and freedom from going to seed. Ebenezer sets produce marketable onions in June and July, long before any others are ready. Price: Lb. 40c, 2 lbs. 70c, 4 lbs. \$1.20, prepaid.—Not prepaid, pk. (8 lbs.) \$1.45, bu. (32 lbs.) \$4.85.

Bermuda Onion Plants

Started in Texas from the finest strains of onion seed, the plants are lifted and shipped to be replanted in northern gardens. They will produce mild-flavored young green onions in the shortest possible time, or allowed to develop, will quickly grow to creaming or slicing size. Plant in rows 16 inches apart.

We can usually supply the following varieties: Yellow Bermuda, Crystal Wax, Prize-taker and Valencia, but in case of shortage we reserve the right to substitute.

Orders will be shipped at proper time for setting out. We prepay to third zone only (300 miles). Beyond that, at customer's risk. 40,000 plants are required to plant an acre. Yields of 50-75 bu. from 6,000 plants are reported. All orders booked subject to crop.



Price Prepaid
to 3rd zone

2 Bundles
55c
5 Bundles
\$1.25
10 Bundles
\$2.25

Not Prepaid
Per Case of
60 Bundles
WRITE FOR
PRICE

Weight of
Case 35 lbs.
Bundles Con-
tain 75 to
100 Plants

Onion Plants not available after May 1st

Garlic Sets



Used for flavoring stews, soups, meats, dressings and sauces. Garlic is a perennial, a member of the onion family, but of much stronger flavor. The bulb separates beneath a thin, papery skin into divisions or "cloves." These cloves are planted in rows 12 to 18 inches apart and 4 to 6 inches apart in the row and covered with an inch or two of soil. When the tops have died, the bulbs are pulled, braided together by their tops and hung in a dry, airy place to cure. 1/2 lb. 35c, lb. 60c, 5 lbs. \$2.75, prepaid.—Not prepaid, 10 lbs. \$4.75.

For Chives Plants see Page 27

SACCO PLANT FOOD Makes things Grow!

ANALYSIS-4-12-4

Used for years on lawns of fine homes—on golf courses—in private gardens—hot-houses—and nurseries of florists and commercial growers.

Ten lbs. is sufficient to fertilize plot of lawn 20x25 ft.; 25 lbs. will cover plot 30 x 40 ft. (Use 2 to 4 lbs. per 100 sq. ft.).

Price: 5-lb. pkg. 45c (postage to 3rd zone 20c extra), 10-lb. pkg. 80c (postage to 3rd zone 30c extra). By express or freight, not prepaid: 25-lb. bag \$1.45, 50-lb. bag \$2.50, 100-lb. bag \$4.00.

FOR GARDENS, LAWNS SHRUBS—PLANTS—TREES

A single application makes grass and vegetables grow vigorously and flowers and shrubbery beautiful with bloom and foliage. Quick results, easy to apply, only a small quantity required, no offensive odor.



"BOOST'EM" PLANT STARTER AND FERTILIZER

This remarkable formula increased tomato yields 4 tons per acre at Purdue University! An all-soluble chemical mixture that quickly dissolves in water to make a highly effective starter solution for transplanting Cabbage, Tomato, Melons, Peppers, Egg Plants, etc. Reduces transplanting shock, promotes earlier harvest, greater yields, better quality! See details page 76. Price: 1 1/2 lb. can (makes up to 25 gal.) \$1.00, prepaid.

Dependable ONION SEED

One ounce will sow 100 feet of drill; 5 pounds per acre.

CULTURE—The soil should be very carefully prepared for onions. The richer the soil, the better the crop will be. Plenty of fertilizer, well spaded in, is essential. Sow the seed as early as the ground can be worked, in rows 15 to 18 inches apart, covering ½ inch deep. When the seedlings are 3 or 4 inches tall, they should be thinned out to stand 3 inches apart in the row. Keep free from weeds.

Long-Keeping Winter Onions

401. SOUTHPORT RED GLOBE—113 days. The finest of the red onions. Bulbs perfectly round, of good size, with small neck and thick, deep purplish red skin; flesh white, tinged with pink; a wonderful keeper and a heavy yielder. Pkt. 10c, oz. 50c, ¼ lb. \$1.35, lb. \$4.25, prepaid.

402. EXTRA EARLY YELLOW GLOBE—98 days. A money-maker for the early market. Ten days earlier than Southport Yellow Globe, and an exceptionally good keeper for so early a variety. Bulbs semi-globe shape, solid, uniform and attractive, with deep yellow color. Pkt. 10c, oz. 50c, ¼ lb. \$1.35, lb. \$4.25, prepaid.

403. MINNESOTA SOUTHPORT YELLOW GLOBE—112 days. A handsome, golden yellow globe, with tough, clinging skins. Flesh white, with creamy tone. Will keep in storage longer than any other. Pkt. 10c, oz. 50c, ¼ lb. \$1.35, lb. \$4.25, prepaid.

Large Mild Onions

411. MICHIGAN STATE SWEET SPANISH—Long Keeping Sweet Onion. Developed at Michigan State College from a strain of Yellow Sweet Spanish, this new onion keeps late into the spring in perfect condition. The outer skin is tight and holds to the flesh, making very attractive onions after they have been held in storage for 6 months. The flesh is firm, sweet and crisp. Pkt. 20c, oz. \$1.00, prepaid. See Front Cover for Color Photo.

412. SWEET SPANISH OR VALENCIA—110 days. A mild, sweet, giant onion, of the true Spanish or Bermuda type. Bulbs globular with small neck, pure white, firm and delicious at all stages of growth. Pkt. 10c, oz. 60c, ¼ lb. \$1.60, lb. \$5.00, prepaid.

413. WHITE BERMUDA OR CRYSTAL WAX—90 days. Both skin and flesh clear white; of mild delicate flavor. Bulbs very flat; medium sized. Pkt. 10c, oz. 55c, ¼ lb. \$1.75, lb. \$5.00, prepaid.

414. MIXED ONION SEED—Will furnish a supply of onions all summer and for winter storage, as it contains a mixture of all varieties. Pkt. 10c, oz. 35c, ¼ lb. \$1.35, lb. \$4.00, prepaid.

Minnesota Southport White Globe.

A pure white mild-flavored onion.

Early White Welsh → for the first green onions in early Spring. Tender, and of delicate flavor.



TREAT SEEDS WITH New ARASAN

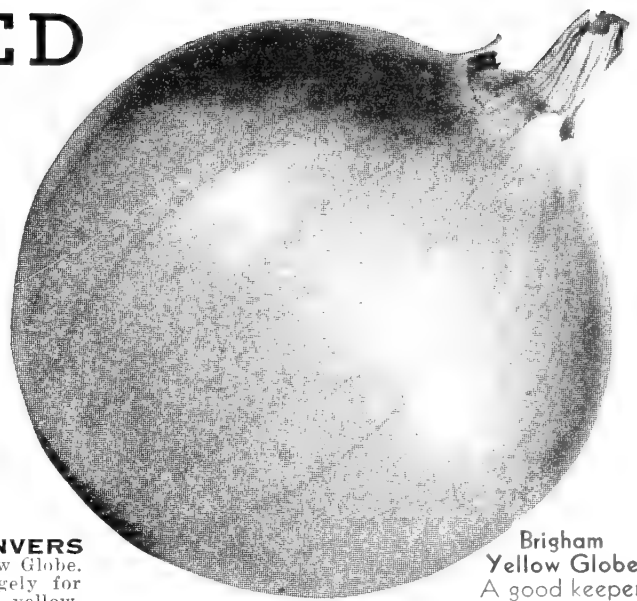
To Produce Strong Heavy-Yielding Plants

And that's what brings in the dollars! Results obtained from tests showed that the stand for untreated seed was 64 per cent, while that for the Arasan-treated seed was 83 per cent, or an improvement of nearly 30 per cent. Arasan is a simple easy-to-use dust treatment and pays for itself many times over. Full Directions Included With Each Package.



For Bigger and Better Vegetables Use ARASAN

ARASAN SEED TREATMENT:
Price:
1-oz. pkt. 16c
8-oz. can 85c prepaid



Brigham Yellow Globe
A good keeper

Onions for Bunching

420. HE-SHI-KO—80 days. A bulbless bunching variety, grown for its long, slender, pure white stems. Tender and of delicate flavor, the onions are produced in clusters and are double the size of ordinary bunching onions. Pkt. 10c, oz. 55c, ¼ lb. \$1.75, prepaid.

424. EARLY WHITE WELSH—A hardy perennial, used exclusively for green bunching onions. This variety does not produce bulbs, but provides a good crop of the finest green onions for the market early in spring, in advance of those from sets. Pkt. 10c, oz. 50c, ¼ lb. \$1.50, lb. \$4.85, prepaid.

425. LISBON WHITE BUNCHING—(Annual.) Here's an exceptionally early green bunching onion. An annual which forms small bulbs for green table onions—of real quality and mild flavor. Used by leading gardeners for the early market. Pkt. 10c, oz. 55c, ¼ lb. \$1.75, prepaid.

Pickling Onions

428. WHITE PORTUGAL OR SILVER SKIN—(Medium Early.) An all-purpose onion, excellent for sets, as a pickler, for green bunching and for storage. Bulbs: medium size, thick flat, clear white, hard, fine grained and of pleasing flavor. It is a dependable cropper. Pkt. 10c, oz. 55c, ¼ lb. \$1.75, prepaid.



He-Shi-Ko Bunching Onions.

Luscious PEAS from Your Own Garden

One pound will plant 100 feet of drill.

CULTURE—Peas are a cool-weather crop and must be planted as soon as the ground can be worked in spring. A rich, light soil is required and plenty of water if a full crop is to be produced. It will pay to use a balanced commercial fertilizer in the row when the seeds are sown. (See page 76.) Sow in rows 2 feet apart and 2 inches apart in the row. Avoid crowding, as closer planting will produce no greater crop. Tall varieties must be supported with light stakes or brush.

Dwarf Early Wrinkled Peas

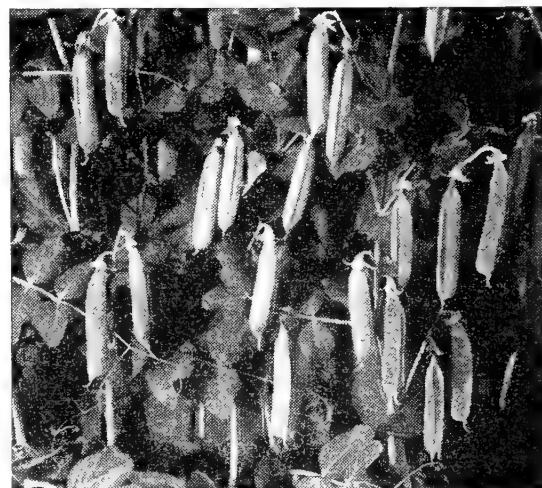
462. AMERICAN WONDER — (61 days.) Our stock is the true extra-dwarf, early strain. Popular with home gardeners and very productive. Plants 12 to 14 inches high; pods contain 6 peas, large and very sweet. Mammoth pkt. 10c, ½ lb. 20c, 1b. 35c, 5 lbs. \$1.55, prepaid.

463. LAXTON'S PROGRESS — (62 days.) Most experts consider this the best of the large-podded, large-fruited wrinkled peas. Very productive, with 4-inch pods of a handsome deep green, filled with 8 to 10 dark green peas of luscious flavor. Vines 1½ feet. Mammoth pkt. 10c, ½ lb. 25c, 1b. 40c, 5 lbs. \$1.75, prepaid.

Little Marvel →

464. LITTLE MARVEL (Marvel Freezer Pea) — (64 days.) A favorite for the average home garden, as it remains in prime condition a week longer than older sorts. The 18-inch vines are hardy and very productive, with dark green pods, usually in pairs filled with 7 to 8 large, tender, sugary peas. Mammoth pkt. 10c, ½ lb. 20c, 1b. 35c, 5 lbs. \$1.55, prepaid.

465. PREMIUM GEM — (64 days.) A highly productive, medium early variety, recommended for the home garden and for canning. Dark green 20-inch vines, heavily set with light green pods containing 6 to 7 peas of good quality. Mammoth pkt. 10c, ½ lb. 20c, 1b. 35c, 5 lbs. \$1.55, prepaid.



Laxton's Progress—
Early, large-podded,
heavy-yielding
and of
excellent
quality.

Market
Growers:
Write for
Quantity
Prices.

Extra Early Peas

452. EXTRA EARLY ALASKA — (57 days.) Smooth Seeded. A hardy variety for earliest planting. Pod contains 6 to 8 peas of good quality. The light green, slender plants grow 28 inches high and mature uniformly. A profitable early sort for market gardeners. Mammoth pkt. 10c, ½ lb. 20c, 1b. 30c, 5 lbs. \$1.40, prepaid.—Not prepaid, 10 lbs. at 21c per lb.

453. EARLY BADGER EIGHT WEEKS — (58 days.) Wilt Resistant. Plant very early and in less than 60 days you begin picking the peas. The dwarf slender vines grow about 18 inches high and are very productive. Pods are blunt, medium green and contain 5 to 7 good-quality peas. Seeds wrinkled. Mammoth pkt. 10c, ½ lb. 20c, 1b. 35c, 5 lbs. \$1.65, prepaid.—Not prepaid, 10 lbs. at 25c per lb.

F. S. & N. Co's

Succession Collection

Fresh Peas All Summer!

IMPORTANT—All varieties in this collection must be planted at *one time*, as early in the spring as the ground can be worked, and they will mature in succession.

EARLY ALASKA (57 Days)

LAXTON'S PROGRESS (62 Days)

POTLATCH (78 Days)

1 pkt. of each (3 pkts.)	25c	} Ppd.
½ lb. of each (1½ lbs.)	65c	
1 lb. of each (3 lbs.)	\$1.00	

For TRAIN-ETTS
the Ideal Support
for Peas—
See Page
75.

Midseason and Main-Crop Peas

473. POTLATCH OR STRATAGEM — (78 days.) The Best Dwarf Late Pea. Famous for its heavy yield of immense deep green pods, packed with 8 to 10 large, tender peas of finest quality. Healthy, bluish green vines 2 feet high, bear continuously from July 1st to 15th. Mammoth pkt. 10c, ½ lb. 25c, 1b. 40c, 5 lbs. \$1.75, prepaid.

474. DWARF TELEPHONE OR DAISY — (76 days.) Valuable to both the home gardener and to the commercial grower for its productivity and ease of cultivation. Plants average 1½ to 2 feet in height and bear an abundance of pods, 4½ to 5 inches in length, tightly filled with 8 to 10 dark green peas of excellent quality. Mammoth pkt. 10c, ½ lb. 25c, 1b. 40c, 5 lbs. \$1.75, prepaid.

485. TALL TELEPHONE — (74 days.) The Standard Large-Podded Late Pea. Bears uniformly large, handsome pods, 5 inches or more long, filled with 8 to 9 delicious peas. Vines grow 4 feet high and yield a heavy crop. Excellent for freezing, shipping and for the home garden. Mammoth pkt. 10c, ½ lb. 25c, 1b. 40c, 5 lbs. \$1.75, prepaid.

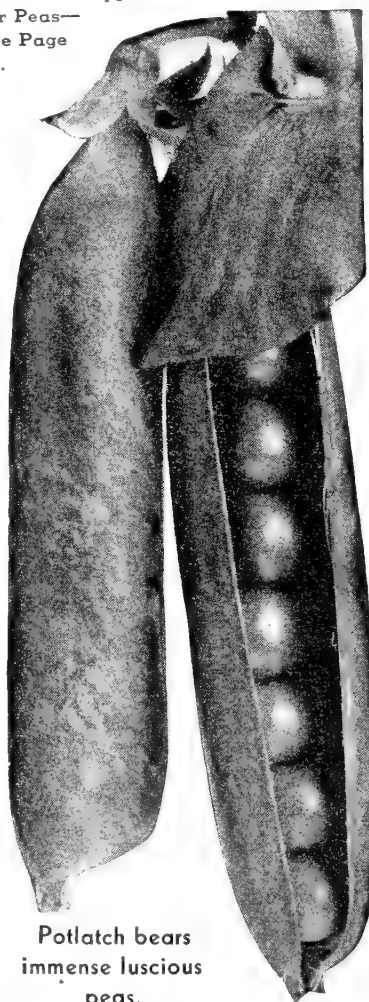
Edible Pod Peas

Cook the Pods
Like String Beans

492. DWARF SUGAR — (68 days.) Sugar Peas have the tenderness and fleshy podded qualities of snap beans, and the flavor and sweetness of fresh green peas. When young, pods are stringless, brittle and succulent. The vines grow to a height of 26 inches, and should be given support. Mammoth pkt. 10c, ½ lb. 25c, 1b. 40c, 5 lbs. \$1.75, prepaid.

For Split Pea Soup

495. CANADA SOUP PEAS — (85 days.) Resistant to Fusarium Wilt. A very productive late Pea grown extensively for dry use. The plants grow very tall and bear an abundance of light green, blunt pods. The seed is small, smooth, creamy white. Mammoth pkt. 10c, ½ lb. 15c, 1b. 25c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 20c per lb.



Potlatch bears
immense luscious
peas.



For Bigger & Better Crops

USE NITRAGIN

Garden Size Packet for
Inoculating PEAS, BEANS
and SWEET PEAS.

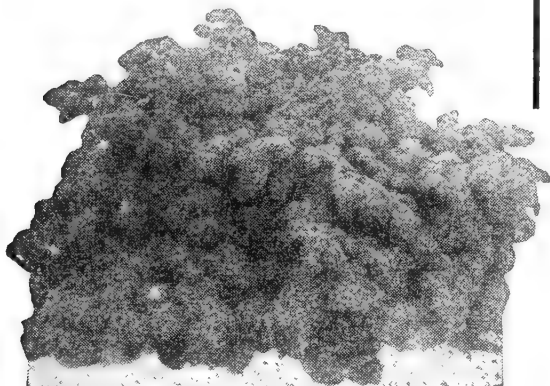
(Will Treat 8 lbs.
of Seed.) 10c

Parsley One Oz. Sows 150 Ft.

Sow seeds as early in spring as possible, in shallow drills, covering with about 1/2 inch soil. Three to four weeks are required for germination.

430. MOSS CURLED—Dwarf and compact in habit, with densely curled and finely cut leaves of a rich dark green color. Should be freely used in salads, soups and sauces, as it is a valuable source of vitamins A, C, and B₁, and it supplies calcium, phosphorous, iron and copper. Pkt. 10c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, lb. \$1.40, prepaid.

431. HAMBURG OR THICK-ROOTED—The thick fleshy roots form the edible part of the plant, and impart a delicate Parsley flavor when used in soups and stews. Pkt. 10c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, lb. \$1.40, prepaid.



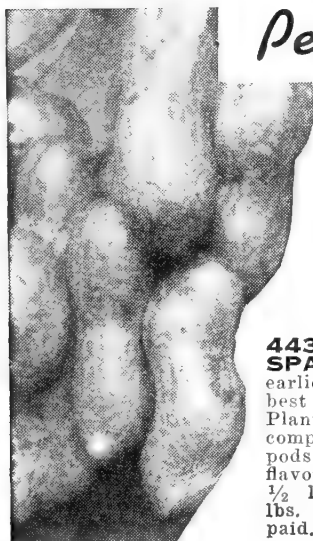
The beautiful rich green leaves of Curled Parsley are high in food value.

Parsnips One Oz. Sows 150 Ft.

Sow outdoors about April 15th in drills 2 feet apart, cover seed with 1/2 inch soil; thin out to 4 inches apart.

435. WHITE MODEL—(95 days.) The Smoothest and Whitest Parsnip. Of medium length, fine shape and clean smooth skin; flesh tender, sweet and fine textured. Pkt. 10c, oz. 20c, 1/4 lb. 65c, 1/2 lb. \$1.20, lb. \$1.90, prepaid.

436. HOLLOW CROWN (Guernsey)—(95 days.) Roots about 12 inches long, uniformly tapered, with a diameter at top of 2 1/2 inches. Tender and sugary. Pkt. 10c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, lb. \$1.40, prepaid.



Peanuts

As Easy
to Grow
as Potatoes
Ask for
Free Leaflet

443. E A R L Y SPANISH—The earliest variety, and best for the North. Plants are upright and compact, with small pods and nuts of fine flavor. Large pkt. 10c, 1/2 lb. 35c, lb. 65c, 5 lbs. at 60c per lb., prepaid.

444. LARGE VIRGINIA—The main crop peanut, and the most extensively grown. Plants are erect, and of vigorous, rapid growth, with very large pods and nuts. Fine for dry, sandy soil. Large pkt. 10c, 1/2 lb. 35c, lb. 65c, 5 lbs. at 60c per lb., prepaid.

Mild Sweet PEPPERS Rich in Vitamins

One ounce of seed for 1,000 plants. 1/4 lb. to transplant one acre.

For
Pepper Plants
See Page 27.

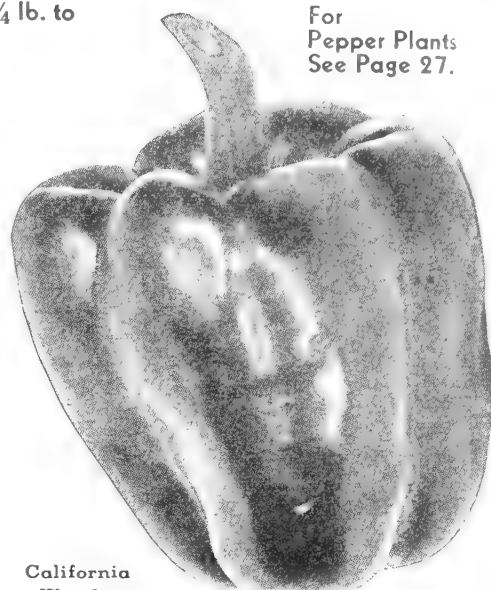
532. KING OF THE NORTH—(64 days.) An early large pepper especially valuable in northern states. Fruits are enormous in size and color up a brilliant red much earlier than any other large sort. They average 6 inches long, 4 inches across. The flesh is thick, firm, very sweet and mild. Plants are literally covered with large peppers. Often one plant will have 8 to 10 mature fruits. Pkt. 15c, 1/2 oz. 45c, oz. 75c, 1/4 lb. \$2.50, prepaid.

534. HARRIS EARLY GIANT—(63 days.) An excellent first early sweet variety, for home and market garden use. Fruits resemble Bull Nose in form. Plants: dwarf, upright, very productive. Fruits: 4 1/2 inches long, 3 1/2 inches thick; gently tapered, 3-lobed, of sweet mild flavor; deep green changing to bright red. Pkt. 15c, 1/2 oz. 45c, oz. 75c, 1/4 lb. \$2.50, prepaid.

536. CALIFORNIA WONDER—(68 days.) A real quality pepper, mild and sweet. It produces smooth uniform fruits 4 inches in diameter and 5 inches long, mostly 4-lobed. The color is deep green, changing to bright crimson at maturity. The flesh is solid and thick. Pkt. 15c, 1/2 oz. 50c, oz. 80c, 1/4 lb. \$2.60, prepaid.

537. LARGE BELL or BULL NOSE—(58 days.) A popular early sweet variety. The first on the early market. Plants: small, erect, prolific. Fruits: 3 inches long, 2 3/4 inches thick; blunt, deep green—changing to scarlet red; sweet, mild in flavor. Pkt. 15c, 1/2 oz. 45c, oz. 75c, 1/4 lb. \$2.50, prepaid.

539. RUBY KING—(68 days.) Excellent for home and market gardening, also for shipping. Plants: medium dwarf, erect, vigorous, and very productive. Fruits: 5 inches long, 3 inches thick; tapering, dark green changing to ruby red at maturity. Flesh: thick, mild and sweet. Pkt. 15c, 1/2 oz. 45c, oz. 75c, 1/4 lb. \$2.50, prepaid.



California
Wonder

Blocky thick-fleshed. Excellent for stuffing.

CULTURE—Sow seed in flats, or in the hotbed in March, and transplant seedlings, when 3 or 4 inches high to other flats or to paper pots. About the last of May, transplant to the garden, in rich, well-prepared soil, setting the plants in rows 3 feet apart, 20 inches apart in rows.

NOTE—The time from setting out plants to marketable condition is indicated here.

For Pepper Grass or Cress see page 13.

Pumpkins

542. SUGAR PIE—(108 days.) Most desirable for pies. Very fine grained, sweet and a splendid winter keeper. Fruits: 10 inches thick, weight 6 to 8 lbs.; skin hard, smooth, somewhat ribbed, deep orange. Flesh: thick, sweet, orange-yellow, and of high quality. Pkt. 10c, oz. 15c, 1/4 lb. 30c, lb. \$1.00, 5 lbs. at 90c per lb. prepaid.

Cheyenne New Pie Pumpkin of True Bush Type

543. CHEYENNE—(100 days.) A genuine bush form pumpkin, recently introduced by the U.S.D.A. at their Wyoming station. Of small, handy size, the fruits are brilliant orange, with fine-grained, solid flesh, of deep golden-yellow, excellent for pies. Plants are very prolific. Pkt. 15c, oz. 25c, 1/4 lb. 75c, lb. \$2.25, prepaid.

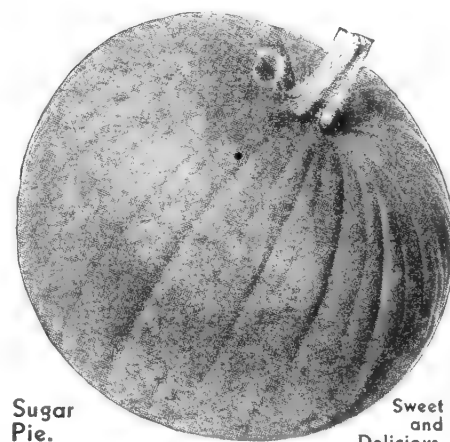
For Color Photo See Inside Back Cover.

New Field Pumpkin

545. DICKINSON FIELD—(Matures in 110 days.) Developed at Purdue University, this new pumpkin is far superior to all others in quality, with finer grained, thicker flesh. Commercial canners prefer Dickinson for its exceptionally high sugar and protein content, its uniform golden color and heavy yield. Often produces 25 tons to the acre. Fruits are large, elongated, and weigh from 15 to 20 lbs. The color is a deep, clear, golden yellow throughout. For pies, for canning and stock feed, we consider it the best on the market. Pkt. 10c, oz. 15c, 1/4 lb. 30c, lb. \$1.10, 5 lbs. at \$1.00 per lb., prepaid.

PYROCIDE DUST protects Pumpkin Vines from squash bugs and beetles, which attack the leaves, causing them to wilt and become blackened and crisp. PYROCIDE is easy to use and it is non-poisonous. See page 12 for prices.

1 oz. for 25 hills, 4 lbs. per acre.
Plant like squash, 3 or 4 seeds
per hill and thin to 1 plant per hill.



Sugar
Pie.

Sweet
and
Delicious.

546. MAMMOTH KING or JUMBO—(Matures in 120 days.) The largest of all pumpkins. Valuable for stock feeding and exhibition purposes. Fruits: 20 to 24 inches in diameter, weight 60 to 90 lbs., very large, globular, slightly ribbed, flattened; skin light yellow, mottled with yellow and frequently slightly netted. Flesh: solid, coarse, but of fair quality. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.15, prepaid.

549. PRIZE COLLECTION MIXTURE—A mixture of the best varieties described above, all shapes and sizes, large and small. Just the thing for growing varieties to exhibit at county or state fairs. There is bound to be a prize winner. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.15, prepaid.

If You Have Had Trouble Growing Cabbage, Try the New Yellows-Resistant Varieties—
See Page 7.

Certified

SEED POTATOES

Minnesota
Grown

LATE MAIN-CROP POTATOES

Farmers can be sure of getting a better potato crop, by using Certified Seed, instead of local stocks, that may have run out, according to R. C. Rose, Plant Pathologist at University Farm. Virus diseases, such as spindle tuber, mosaic, yellow dwarf, and leaf roll are often present in table stock or garden crops. Seed used from a bin of these potatoes may carry enough infection to reduce the vigor of the crop the second year. This is what is known as "running out."

STANDARD EARLY POTATOES

Bug & Blight-Resistant SEQUOIA

Resistant to Late Blight, Mild Mosaic and Immune from Wart. Valuable also for its Resistance to Leaf-hopper and Flea-beetle Injury. Requires Less Fertilizer than Most Varieties for the Production of High Yields.

Developed from a cross of Green Mountain and Katahdin by the U. S. Department of Agriculture. Produces large roundish, flattened smooth white tubers with shallow eyes and white flesh, of finest cooking quality. For best results Sequoia should be more closely spaced in planting than other varieties. See Blue Figure Price List.

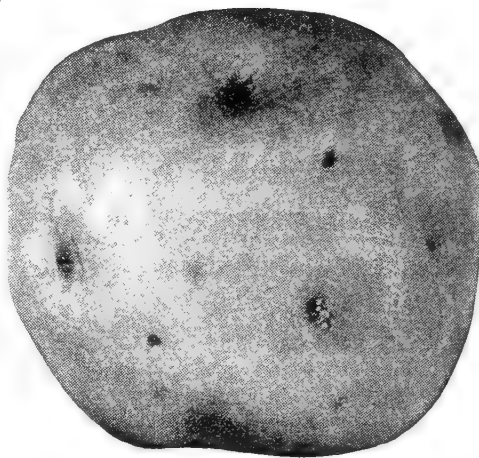


Extra WARBA Early

Disease-Resistant, Heavy Yielding, Excellent Cooking Quality. Keeps and Stores Better than any other Early Variety.

White Warba was developed by the Minnesota Agricultural Experiment Station—a cross of Triumph and a selected seedling. The tubers are uniform in size, short, round and blocky, with rather deep red eyes. The skin is creamy white and the flesh white.

Red Warba, a sport of White Warba, is like it in every respect except skin color, which is red. Flesh cooks white and mealy, with an exceptionally fine flavor. See Blue Figure Price List.

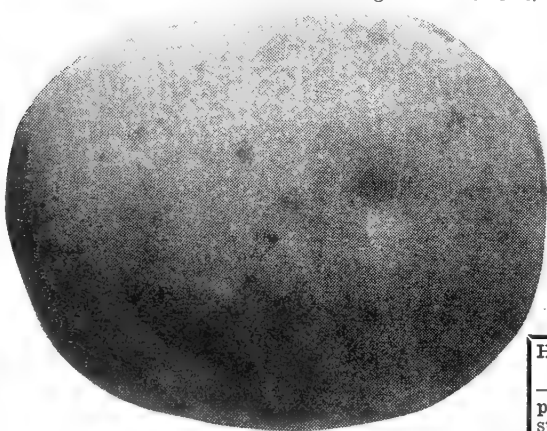


Ring Rot Resistant NEW TETON

Developed by the U. S. Dept. of Agriculture, Teton has been co-operatively grown and tested over a period of six years by the Wyoming Agr. Exp. Sta., the U. S. Dept. of Agr. at Beltsville, Maryland, as well as by the Maine Station, during which time it has proved to be definitely resistant to Ring Rot.

Round to oblong in shape, slightly flattened, with smooth, self-colored skin, light yellow; eyes, few and shallow. Flesh, pale creamy white, with a pleasant flavor. When baked, Teton is superior to Triumph and Irish Cobbler. The flesh is mealy and moderately fine-grained.

Yield tests showed that Teton outyielded Katahdin, Irish Cobbler, Pontiac, Sebago and Triumph. Teton yielded 431 bushels per acre on the average for three years, 1943 to 1945. See Blue Figure Price List.



IMPORTANT!

We usually begin shipping Seed Potatoes about April 10th, if weather conditions are normal.

When earlier shipments are requested, they are sent at purchaser's risk, as railroad companies do not guarantee refrigerator car service to destination.

We cannot be responsible for delays in transit to distant points.

See Page 27 for "Girasol," the Diabetic Potato.

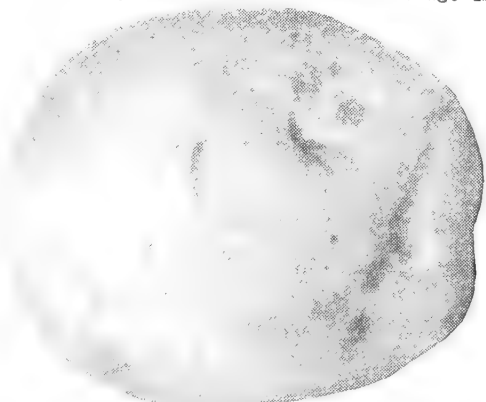
Sweet Potato Plants see Page 27.

Have You Read About "BAR-SPROUT"—it improves quality, prevents sprouting in storage. Page 71.

SEBAGO

Shows Definite Resistance To Blight & Yellow Dwarf Disease. Late Blight and Yellow Dwarf disease have caused heavy losses in the potato growing sections definitely resistant to both and that tubers seldom show hollow heart, internal coloration and hardening.

A cross of Chippewa and Katahdin, developed by the U. S. Department of Agriculture. Sebago is a heavy yielder of fine quality tubers if grown on fertile soil. Does not yield well on poor sandy soil. Tubers are large, oval to oblong in shape, ivory-white, thin-skinned with shallow eyes and white flesh. The vines are large and vigorous of upright habit. See Blue Figure Price List.



EARLY OHIO A Money Maker For Early Market

Adapted to Every Locality, Heavy Yielding, Always Dependable, Extra Fine Cooking Qualities.

Tubers run uniform, medium to large in size, oval in shape with blunt rounded ends and shallow eyes. Skin is light reddish pink, smooth, and the flesh is white, firm, fine-grained and unexcelled in quality. See Blue Figure Price List.

IRISH COBBLER Popular Early White of Excellent Quality

Does Well on a Wide Range of Soils. Resistant to Mosaic and Immune from Wart. Cooks Dry and Mealy.

Attractive creamy white tubers, medium to large in size, smooth, nearly round in shape, with blunt ends; eyes are strong, well-developed and slightly indented. Flesh white, of fine quality. Cobblers are famous for their heavy yield, excellent cooking and keeping qualities. See Blue Figure Price List.

BEST MIDSEASON POTATO

U. S. D. A. CHIPPEWA Husky, Disease-Resistant. Yields Enormous Crops

Introduced by the U. S. Department of Agriculture. Especially Adapted to Growing in the Northwest. Has Yielded 464 Bu. per Acre at Grand Rapids Test Plot.

A handsome potato, oblong in shape, with smooth creamy-buff skin and shallow eyes. Large to medium in size, with sparkling white flesh that cooks up dry and mealy and is unexcelled for baking. Highly resistant to mild mosaic and entirely free from net necrosis. See Blue Figure Price List.

QUICK EASY TREATMENT FOR POTATOES

SEMESAN BEL

A Semesan Bel dip before planting will protect them from scab and other diseases, insure a good stand of healthy plants and give a much higher yield. Price: 2-oz. pkg. (treats 6 to 8 bu.) 35c, 1 lb. can (treats 60 to 80 bu.) \$1.85, postpaid.

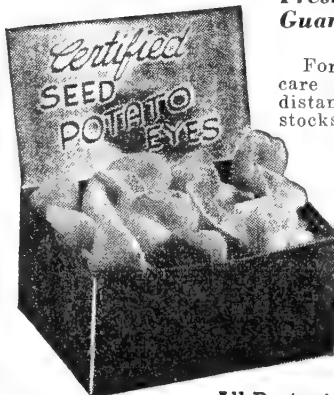
Certified

SEED POTATO EYES

Freshly Cut at Shipping Time—Guaranteed to Reach You in Good Condition.

For those of our customers who do not care to pay transportation on tubers to distant points, we offer Potato Eyes, while stocks are available. Not less than 100 eyes of a variety can be offered, and this will plant 100 hills. See Back Cover.

In Ordering, Name Your Preference, though We Reserve the Right to Substitute. Prices are postpaid.



PRICE OF POTATO EYES

Certified	100 for \$1.85
Sequoia	200 for \$3.50
& Teton	500 for \$7.95
All Other	100 for \$1.35
Varieties:	200 for \$2.50
	500 for \$5.85

All Postpaid

RADISHES *must grow Quickly*

Early Saxa
Ready to pull
in 16-20 Days

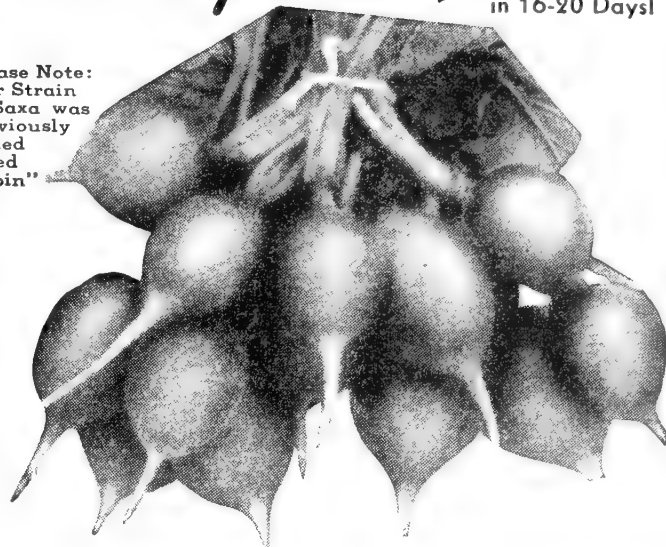
To be Tender and Crisp

One ounce will sow 100 feet of drill, 9 to 10 pounds per acre.

CULTURE—Quick growth makes Radishes crisp and tender, and to grow well, they must have cool weather and light, rich soil. Cover seed $\frac{1}{2}$ inch. To have a continuous supply for the table, sow as early in the spring as possible, and at intervals of 10 days thereafter until May 15th. To have Radishes in fall, three sowings of early varieties may be made at weekly intervals, beginning August 15th.

Wormy Radishes can be controlled by spraying with Carco. By practicing crop rotation, and changing the planting site each year, serious soil infestation can be overcome.

Please Note:
Our Strain
of Saxa was
previously
called
"Red
Robin"



Quick - Maturing Varieties

552. EARLY SAXA

Profitable Early Market Variety. Previously called Red Robin. Ready to pull in 16 to 20 days. Color: rich scarlet; flesh, snow-white, crisp, juicy and mild; shape, slightly elongated globe. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.



558. CRIMSON GIANT

(28 days.) Largest of all the early round radishes, of fine mild quality, it remains in perfect condition until an inch in diameter. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

559. FRENCH BREAKFAST

(25 days.) A splendid variety for home use, oblong, blunt, about 2 inches long, it is rich scarlet in color, with a white tip. Flesh is solid, crisp and sweet. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.



French Breakfast—excellent for the home garden—early, sweet, crisp and tender.

553. EARLY SCARLET TURNIP

(26 days.) Scarlet-red, flesh crisp and tender. Roots quickly grow to an inch in diameter, turnip-shaped. Excellent for early planting. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

554. EARLY SCARLET TURNIP WHITE TIP

(26 days.) A table dainty, crisp, tender and sweet. It is turnip-shaped, bright scarlet with a white tip, appealing to the eye and palate. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

Firecracker

Very Early—Remains crisp and mild long after maturing.

556. FIRECRACKER—(22 days.) Distinct in type, this radish is long and slender, vivid scarlet in color and although very early, it remains crisp and tender much longer than other early sorts. Seed of this variety was formerly imported, but we have succeeded in growing our own seed. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50, prepaid. Not prepaid, 5 lbs. at \$1.25 per lb.

557. IMPROVED EARLY SCARLET GLOBE

(24 days.) Very early crisp, mild and tender. Bright scarlet in color, of uniform globe shape. One of the best for forcing and outdoor planting. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

MAGGOT DESTROYER

*rids your garden of
ROOT MAGGOTS*

5-oz. Jar
60¢
Ppd.

Use Maggot Destroyer on Radishes, Carrots, Onions and Turnips, as well as on Cabbage, Cauliflower and Broccoli. Apply to stems and roots before setting out plants; dust on soil ten days after planting. This treatment will eradicate maggots and protect your crops.

Home Garden Size 60c prepaid.
Not prepaid, 5 lbs. \$5.00

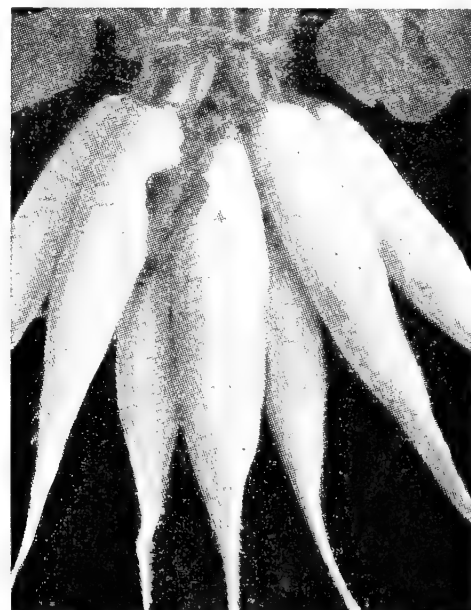
All - Season Radish Collection

One Pkt. Each { Early Saxa
Firecracker
Crimson Giant
White Icicle

33¢
ppd.

One ounce each of above four varieties
for 55c ppd.

Sow Radishes lightly in the same drill with Carrots, Parsnips or Beets, for which they break the soil-crust. Pull Radishes when mature—your later crop will be uninjured.



White Icicle has crisp white flesh
of mild inviting flavor.

F. S. & N. Co.

Oct. 3, 1947.

Firecracker is the only Radish I have been able to raise that is immune to worms. The roots are clean and free from blemishes, crisp and very tender. I certainly want to get some more of the seed, and so do a lot of my friends.

Mrs. E. W. Roney, Scappoose, Oregon

Winter Radishes

Sow in early July and allow to develop during the fall months. Dig before frost and store in a cool place.

565. CALIFORNIA WHITE MAMMOTH

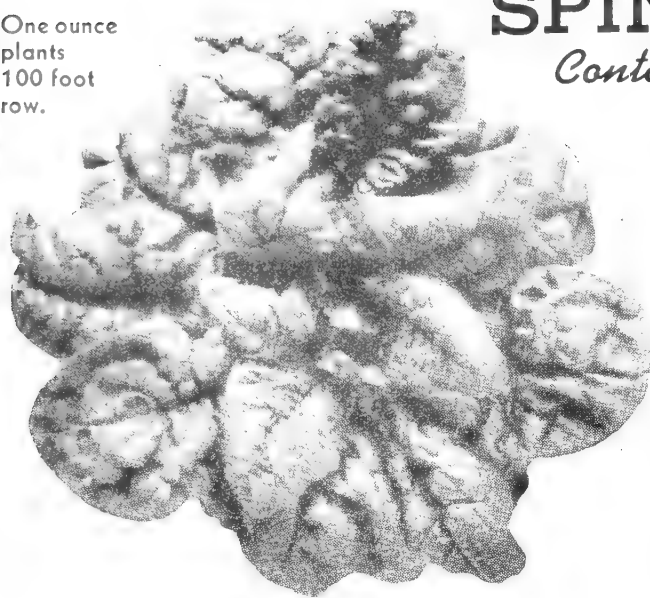
(60 days.) An excellent variety with crisp white flesh of mild flavor. Roots grow 8 inches long and 2 inches thick, cylindrical and thickest at lower end. Fall and winter radishes require from two to three months to mature and the seed should be sown in midsummer. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

Pole Beans can be planted along a fence and Trellis Tomatoes actually climb a trellis—both are space savers for the small garden. See Pages 5 and 25.

SPINACH—Important in Your Diet

Contains Vitamins A, C, G, Calcium and Iron

One ounce
plants
100 foot
row.



Bloomsdale Spinach has thick, glossy green leaves, attractively crumpled.

Rhubarb Seed

One oz. will plant 500 ft.

571. VICTORIA—A vigorous grower with thick, red stalks of excellent quality. Sow in April in drills one foot apart, covering $\frac{3}{4}$ inch. Thin out to 12 inches apart in the row, when a few inches high. The following spring, transplant to deep rich soil, 3 feet apart. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 90c, prepaid.

For Rhubarb Roots, see page 27.

Salsify

Vegetable Oyster One oz. for 100 ft. of row

578. MAMMOTH SANDWICH ISLAND—A delicious vegetable, appetizing and nutritious, with a mild oyster-like flavor. Roots 6 to 8 inches long, from 1 to $1\frac{1}{2}$ inches thick, tapering, smooth, dull white. Plants $2\frac{1}{2}$ ft. tall. Like parsnips, the flavor is improved by frost. The roots are ready for use in October, when a supply should be taken up and stored like carrots; the remainder may be left in the ground for use in spring. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, prepaid.

Tampala

Contains Carbohydrates, Minerals, Protein and Vitamin A

650. TAMPALA — The "Three-in-One" Vegetable. Cooked Tampala leaves are different in flavor from all other greens. Young leaves, finely chopped, make a refreshing salad. Tampala stems, with all leaves removed, may be cooked and served like asparagus. Plants grow 2 feet tall, $1\frac{1}{2}$ feet across, and will not go to seed, new shoots and leaves keep coming even in hot weather. Ready to cut six weeks after planting. Pkt. 15c, $\frac{1}{2}$ oz. \$1.00, oz. \$1.75, prepaid.



Tampala produces greens all summer. Stands hot weather.

Culture—Spinach succeeds best during the cool, moist weather of early spring, and should be sown just as soon as the ground can be worked, in rich, well-drained soil. Make a shallow furrow and cover the seed with $\frac{1}{2}$ inch of soil, then firm. Make the rows 8 to 12 inches apart.

585. GIANT NOBEL—(45 days.) An improved large, smooth, thick leaved spinach, slightly crumpled toward the center. Very crisp and tender, with a fine flavor. Large, vigorous, spreading plant, slow to form seed stalks, and extremely heavy yielding. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00, prepaid. Not prepaid, 5 lbs. at 80c per lb.

586. BLOOMSDALE LONG STANDING—(39 days.) A very early, vigorous variety, desirable for home gardens, for shipping to distant markets and for canning. Plants erect in growth, hardy and attractive. Savoy type leaves, large, thick and dark glossy green. Quick growing, slow to run to seed. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00, prepaid. Not prepaid, 5 lbs. at 80c per lb.

Sown in Early Spring, New Zealand will Furnish "Greens" from Summer to Frost.

587. NEW ZEALAND—(60 days.) This green, distinct from spinach proper, thrives in hot dry weather. It makes a large plant, with small, thick, deep green leaves, and grows with a branching, spreading habit to a diameter and height of two feet or more. Both leaves and stalks are fleshy and brittle and of finest quality when cooked. In harvesting cut only the 4-inch tips of branches. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.25, prepaid. Not prepaid, 5 lbs. at \$2.00 per lb.

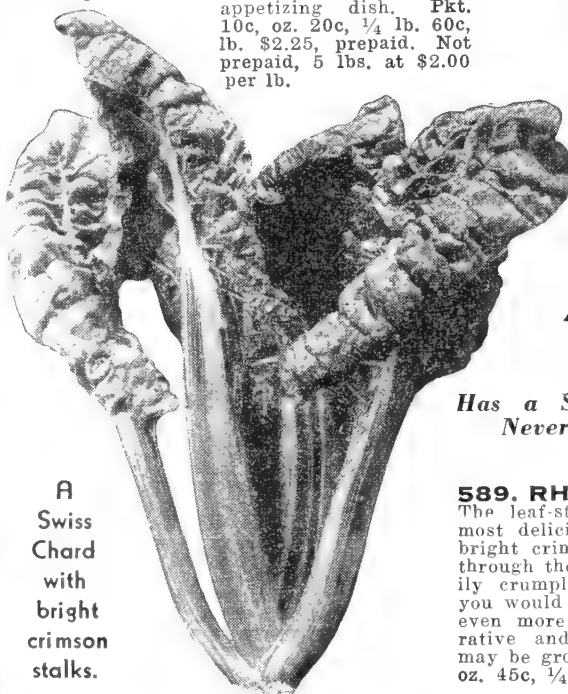
Mustard Spinach, See Page 16

SWISS CHARD

One ounce will sow 100 feet of drill.

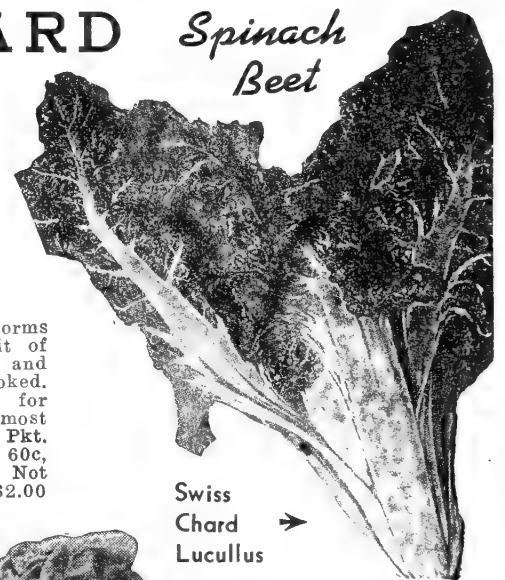
Swiss Chard is a summer green that will stand the hottest weather and continue to produce until frost. Use only the young tender leaves six to twelve inches long. Old large leaves must be pulled off and disposed of at regular intervals.

588. LUCULLUS—(55 days.) Forms tall, sturdy plants, upstanding in habit of growth. Light green leaves, large, broad and heavily crumpled. Very tender when cooked. The thick white stalks are splendid for creaming like asparagus, and provide a most appetizing dish. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.25, prepaid. Not prepaid, 5 lbs. at \$2.00 per lb.



A Swiss Chard with bright crimson stalks.

Spinach Beet



Swiss Chard → Lucullus

Eat leafy greens for health, Swiss Chard Is Rich In Vitamins

New Crimson Chard

Has a Sweet, Delicate Flavor You Never Knew Existed in a Leafy Vegetable

589. RHUBARB CHARD—(60 days.) The leaf-stalks, considered by many as the most delicious part of the Chard plant, are bright crimson, the rich color extending out through the veins into the dark green, heavily crumpled leaves. Grow and cook it as you would other Chards, and you will find it even more delicious. The plant is so decorative and striking in appearance that it may be grown in the flower garden. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, prepaid.

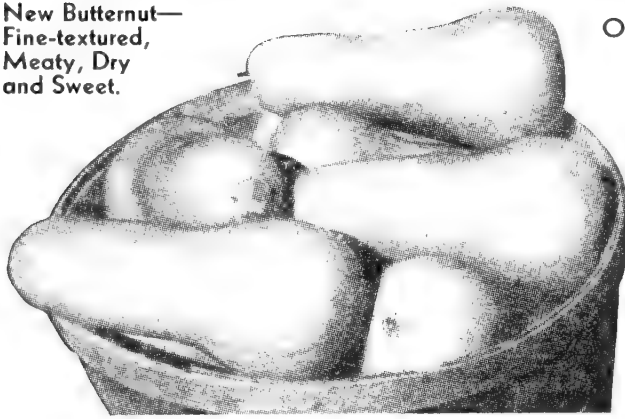
Tobacco Seed

One oz. will provide enough plants for one acre.

662. CONNECTICUT SEED LEAF—Hardy and prolific, this variety is best adapted to growing in the central and northern states. Bulletins on the proper curing of tobacco may be obtained free of charge by writing to your state college or department of agriculture. Pkt. 15c, $\frac{1}{2}$ oz. 50c, oz. 90c, prepaid.

SQUASHES *bred to Highest Quality*

New Butternut—
Fine-textured,
Meaty, Dry
and Sweet.



One ounce plants 50 hills—3 to 4 pounds per acre.

CULTURE—Sow in full sun, in warm, rich soil in hills, allowing 6 seeds to each hill. When plants have 3 or 4 leaves thin out leaving the 3 strongest plants. For protection against the squash borer, cover vine with soil at several joints. It will take root where covered and limit the damage done by the borer.

NOTE—In harvesting Winter Squashes, handle them gently. If the skin is bruised, the Squash will rot. Store on a shelf or rack so they will not touch each other.

See Color Photo New Rainbow Squash on Inside Back Cover.

Greengold, the
"12-to-the-
bushel"
Squash



Greengold has deep orange flesh.

Ready in Early Fall

612. NEW BUTTERNUT—(85 days.) This golden-buff Squash gained instant popularity for its splendid qualities. Almost the entire fruit is clear, solid meat, as all the seed is contained in a small cavity at the blossom end. There is less waste and more meat on Butternut than on any other variety. Bottle-shaped, 10 to 12 inches long, the upper or neck section is 3½ inches in diameter. The skin is smooth and hard, and the flesh fine-textured, dry and sweet, of a deep yellow color. Makes delicious pies, and whether baked or boiled, the flavor is superb. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.75, prepaid.

614. TABLE QUEEN — (65 days.) Early maturing and fine for home or market garden use and for shipping. Fruit: 6 inches long, 4½ inches diameter; weight 1½ lbs., acorn shaped, ribbed, smooth, thin shelled, dark green. Flesh: light yellow, bakes well, with inviting flavor. Pkt. 10c, oz. 20c, ¼ lb. 55c, lb. \$1.75, prepaid.

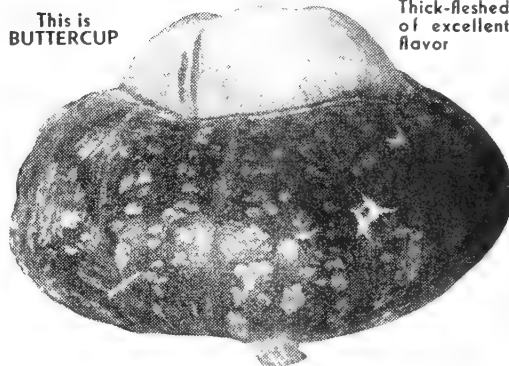
615. GOLDEN TABLE QUEEN — (65 days.) Somewhat larger than the regular Table Queen, and of a beautiful deep golden color. Fruits are deeply ribbed, pointed at blossom end. The orange flesh is thick, dry and of fine texture. Edible from early fall throughout the winter. Pkt. 10c, oz. 20c, ¼ lb. 55c, lb. \$1.75, prepaid.

616. MAMMOTH TABLE QUEEN — (80 days.) Somewhat larger in size, this Squash has all of the virtues of the smaller varieties. The color is dark green, even after picking and storing. Pkt. 10c, oz. 20c, ¼ lb. 55c, lb. \$1.75, prepaid.



Split TABLE QUEEN
in halves, bake and serve

Long-Keeping Winter Varieties



This is
BUTTERCUP

Thick-fleshed
of excellent
flavor

621. BUTTERCUP—(100 days.) A recent introduction, outstanding in quality. The seeds are centered in the blossom end and the rest of the interior is thick, orange flesh, fine-textured, dry and sweet. Turban-shaped, the fruits weigh about 3½ lbs. The rind is thin and tough, dark green, with narrow gray stripes. An excellent winter keeper. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.75, prepaid.

623. NEW RAINBOW—Developed by Dr. A. E. Hutchins at the University of Minnesota Agricultural Experiment Station, from a cross of Greengold and Banana. About 15 inches long and 4 inches in diameter, the fruits weigh 3 to 4 lbs.—just right for serving the average family. Banana-shaped, with a thin, smooth, medium-hard shell; keeps well. The flesh is orange-yellow, thick, fine-grained, dry and sweet—delicious baked, boiled or steamed—nothing finer for canning or pies. This handsome squash was named Rainbow because of the gray-blue stripes on a salmon-pink background. Pkt. 15c, oz. 35c, ¼ lb. \$1.00, lb. \$3.25, prepaid.

625. NEW GREENGOLD—(100 days.) A selection from the Butternut, superior to the Hubbard in edible quality, and of small size, 4 to 5 pounds. Color: orange-yellow background with green stripes. Very thin hard shell, deep orange flesh, dry, mealy, stringless and sweet with an exceptionally fine flavor. Small seed cavity. Greengold is a vigorous grower, with small stems and produces five to six fruits per plant. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.75, prepaid.

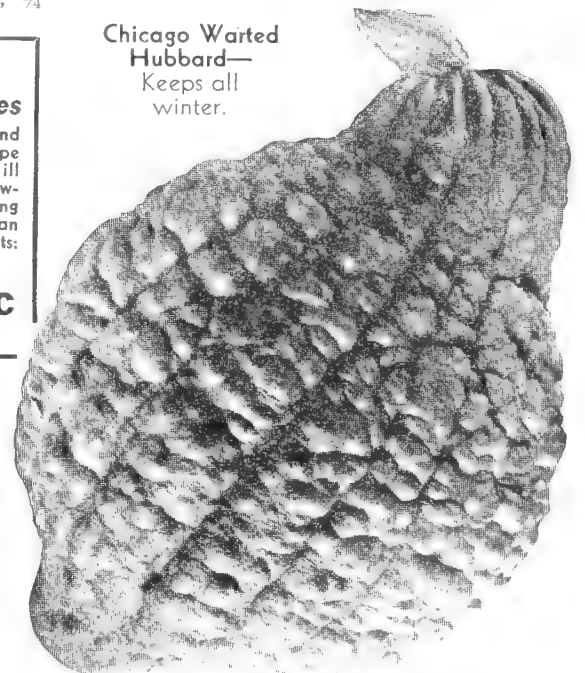
627. BLUE HUBBARD — (110 days.) Superior in edible quality, larger in size and a better yielder and keeper than other Hubbard strains. Fruits large, round, pointed at both ends; slightly ridged, with very hard, blue-gray rind; weight 12-14 lbs. Flesh orange-yellow, thick, of fine flavor. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.10, prepaid.

628. CHICAGO WARTED HUBBARD—(110 days.) Very prolific and a good keeper. The dark green fruits are heavily warted, pointed at one end and weigh about 14 pounds. The flesh is bright orange, fine grained, dry and sweet. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.10, prepaid.

629. IMPROVED GREEN HUBBARD —(105 days.) A standard winter sort for home or market. Fruit: 12 inches long, 9 inches diameter; weight 12 pounds, pointed at both ends, slightly warted, dark bronze green in color; rind hard and tough. Flesh: very thick, orange-yellow, dry and sweet. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.10, prepaid.

When interplanting Squash or Pumpkin with Corn, sow 5 seeds in every fourth hill along with the corn. Thin to two plants.

Chicago Warted
Hubbard—
Keeps all
winter.



USE PYROCIDE DUST To Protect Your Squash Vines

Now you can protect melons, squash and cukes with non-poison Pyrocide, a new type dust, so powerful it controls these hard-to-kill pests, and most all types of sucking and chewing insects on fruits and vegetables including Aphids, Cabbage Worms, Mexican Bean Beetles, Leaf Hoppers, as well as house pests: flies, ants, etc.

5 lbs. \$2.50 Prepaid.

1 lb.
60c
ppd.

Summer Squashes

Grow in Bush form, and may be planted in the average-sized home garden.

The tender half-grown fruits of Summer Squash are delicious. Try dipping the slices in batter and frying them like Egg Plant. If fruits are kept picked before the shell begins to harden, the plants will bear until frost.

603. GIANT STRAIGHTNECK — (60 days.) The convenient straight shape of this squash makes it superior to its parent Crookneck. Plants bushy and prolific. Fruits golden yellow, heavily warted, 18 inches long; flesh thick and yellow of delicious flavor and fine quality. Pkt. 10c, oz. 20c, ¼ lb. 55c, lb. \$1.75, prepaid.

601. COCOZELLE BUSH — (65 days.) The fruits are most delicious when only 4 to 6 inches long. At this stage they may be sliced with the skins on, boiled from 20 to 30 minutes and served with butter, salt and pepper. If kept picked they will continue to bear until frost. Mature fruits are 20 inches long, smooth, dark green, marbled with yellow and light green. The flesh is pale green, thick, firm and tender. Pkt. 10c, oz. 20c, ¼ lb. 55c, lb. \$1.75, prepaid.

TOMATOES — *Meaty and Full-Flavored*



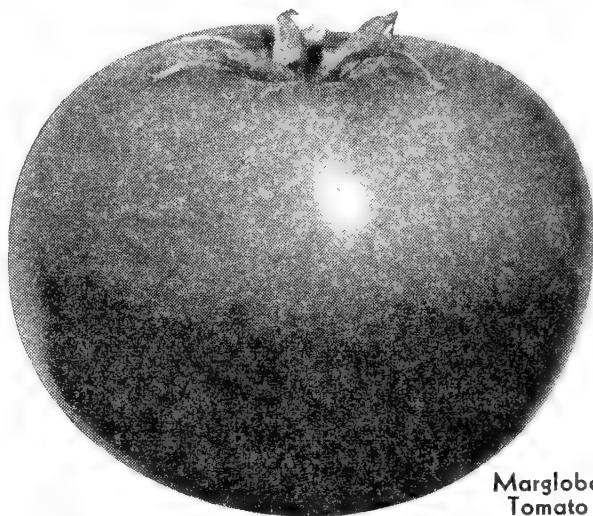
Jubilee—A fine quality orange colored tomato

One Ounce Produces up to 4,000 Plants, Sufficient to Plant an Acre if set 3x4 feet.

CULTURE—Sow the seed in March in a sunny window, in boxes or flats, using a light sandy soil. The seed germinates in 10 to 12 days. When plants are 2 or 3 inches high, transplant them 2 inches apart each way, into other flats using the same kind of soil. In 3 weeks, transplant to small paper pots or 4-inch flower pots, to produce good stocky plants. Pot-grown plants will not suffer a set-back when planted out in the garden, as the roots need not be disturbed.

For a startling increase in yield use "Boost'em" on Tomato Plants. See Page 76.

NOTE—The time from setting out plants to marketable condition is indicated here.



Marglobe
Tomato

Extra-Early Tomatoes

Not Recommended for Staking

711. SCARLET EXTRA EARLY NO. 6—(60 days.) A fine early Tomato for the family garden. Smooth, bright red fruits average 3 inches across and 2 1/4 inches deep. Remarkably solid with an excellent flavor. Bears a heavy crop. Pkt. 15c, 1/2 oz. 50c, oz. 90c, prepaid.

712. FIRESTEEL—(62 days.) Resistant to Fusarium wilt and disease. The fruits are bright scarlet, globular, of medium size, smooth, solid and free from cracks. The flavor is semi-acid. For dry seasons Firesteel has no equal, as it will set fruit when other types are dropping their blossoms. Pkt. 15c, 1/2 oz. 40c, oz. 70c, prepaid.

715. EARLIANA—(66 days.) Fruit: flattened, medium size, firm, bright red, quite smooth. Vine: open spreading, medium small. A first early sort, widely used for home gardens and truckers. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

716. NEW VICTOR—(66 days.) Produces large clusters of fine, deep scarlet tomatoes, uniform in size, even-ripening, exceptionally smooth and resistant to cracking and sunscald. The plants are vigorous and prolific; especially suited to growing conditions in the Northwest. Pkt. 15c, 1/2 oz. 40c, oz. 70c, prepaid.

Mid-Season Varieties

723. JOHN BAER—(70 days.) Here is an excellent early sort maturing between Earliana and Bonny Best. Excellent for local market gardening and canning. Fruit: medium sized, semi-globular, very attractive, bright scarlet red, smooth and firm. Vine: of medium height and open growth. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

725. BONNY BEST—(73 days.) The standard second early sort. Large, bright scarlet fruits, very smooth, perfectly round, solid and meaty. An excellent variety for market gardeners, shippers and canners, as it is a heavy yielder. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

GROW PERFECT TOMATOES!

Keep vines healthy by dusting them regularly with **TOMATO DUST**. Controls Blight, Mildew, Wilt and Leaf Spot, as well as insects preying on tomatoes. For prices see page 74.



New Faribo HYBRID "E"

Resistant to Blight

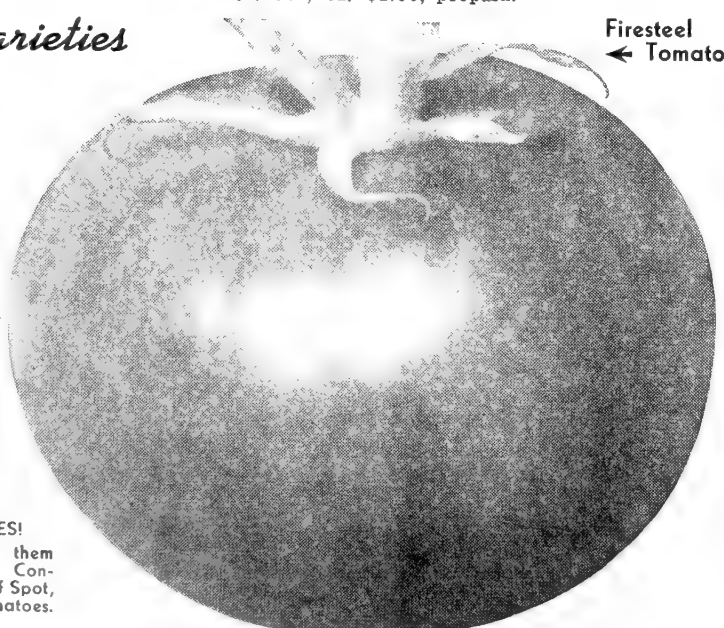
An Early and Heavy
Producer until Frost

See Color Photo Front Cover.

710. FARIBO HYBRID "E" —
(About 55 days.) Unlike other early varieties, this tomato has large vigorous vines and continues to bear profusely until frost. The fruits are medium in size and perfect in shape—very smooth and entirely free from cracks and blemishes. The color is bright red throughout; quality and flavor excellent. Pkt. (30 seeds) 25c, 5 pkts. for \$1.00, 1/8 oz. (about 800 seeds) \$5.00, oz. \$35.00.

A Giant Strain

739. PONDEROSA—The Giant Tomato—(88 days.) A splendid sort for home use and for canning, as the fruits are so solid, meaty and free from acid. Fruit: very large, flat, purplish pink, solid, with small seed cells; of inviting flavor. Pkt. 15c, 1/2 oz. 60c, oz. \$1.00, prepaid.



Firesteel
← Tomato

Disease-Resistant Strains For Main Crop

732. PRITCHARD OR SCARLET TOPPER—(76 days.) A scarlet, self-topping, disease-resistant variety. It is highly productive, of excellent quality, and very valuable for market garden use and for long distance shipping. Fruit: large, smooth, solid, with thick walls and cross sections; color light scarlet. A tasty tomato either sliced or canned. Pkt. 10c, 1/2 oz. 30c, oz. 50c, 1/4 lb. \$1.60, prepaid.

733. MARGLOBE—(77 days.) A splendid main crop variety, resistant to wilt and immune to rust. Fruits are large, smooth, globular, meaty, deep red of fine quality and delicious flavor. Ripen uniformly and are free from cracks. Widely used by truckers, shippers and canners, it is also a favorite for the home garden. Pkt. 10c, 1/2 oz. 25c, oz. 45c, 1/4 lb. \$1.50, prepaid.

735. RUTGERS—(86 days.) Originated by the New Jersey Experiment Station, this tomato is disease resistant and a consistently heavy cropper. The fruit is uniform, globular, smooth, of medium size and very solid, with heavy cross walls and small seed cavities. It ripens evenly from the inside out, to a uniform bright scarlet, is mildly acid and of pleasing taste. Especially valuable for slicing and in the making of sparkling bright red juice. Pkt. 10c, 1/2 oz. 35c, oz. 60c, 1/4 lb. \$1.75, prepaid.

**Jubilee Wins Blue Ribbons
On the Show Tables**

740. JUBILEE—(72 days.) Different from any yellow or orange tomato you have ever grown. Fruits are bright orange-yellow, globular, weight about 6 ounces, smooth, free from cracking and solid. The interior is modern, thick-walled, with few seeds. The flavor is mild but not flat. Makes delicious juice of unusual and attractive color. Plants hold their foliage well and bear over a long season; fruit develops evenly and uniformly. Pkt. 15c, 1/2 oz. 60c, oz. \$1.00, prepaid.

KERR Home Canning Illustrated & Recipe Book in Color

An enlarged, and attractive edition, which contains valuable information on every phase of Home Canning and more than 300 Tested Recipes. Instructions and Recipes are simple enough for the beginner, yet so complete as to be invaluable in the home.



55 Pages—Price 10c ppd.

Free—A copy of this book will be sent free with a \$2.00 order for Garden Seeds or with a \$5.00 order for Field Seeds. Ask for it.

Novelty Tomatoes and Small-Fruited Varieties

Oxheart Heart-Shaped Pink Tomato Often Weighs 3 Pounds

743. OXHEART—(90 days.) Different in shape from any other tomato. The fruits are pink, almost seedless, solid and meaty, of large size and mild sub-acid flavor. Popular for salads and slicing. Pkt. 15c, ½ oz. 60c, prepaid.

Trellis This Tomato Climbs a Trellis Often Yields 2 Bu. from a Single Vine

744. GIANT TRELLIS—Even the smallest garden can produce tomatoes in abundance by letting the vines climb a trellis. The quality of the fruit is excellent—solid, meaty and of fine flavor. The size averages 3½ inches across and 3 inches deep. Pkt. 15c, ½ oz. 45c, oz. 80c, prepaid.

Snowball An Acid-Free Tomato Mild-Flavored, Firm and Meaty

745. SNOWBALL—A beautiful ivory-white tomato everyone can enjoy as it contains less acid than any other variety. The flesh is alabaster-white, firm and meaty with a mild, rich flavor. The fruits are similar to Golden Ponderosa in size and shape. Pkt. 15c, ½ oz. 45c, prepaid.

Novelty Tomato Collection

Grow these Tomatoes and delight your family with a salad composed of alternate slices of orange, frosty white, rich red.

One Pkt. Each:

Jubilee—Orange
Snowball—White
Rutgers—Red

35c

ppd.

Use "Boost'em" Plant Starter for a 20% increase in tomato yields. See page 76.



If Your Garden is Small

Train tomato plants to grow on a trellis or on stout stakes and they will take up no more room than a dahlia.

For Sauce & Preserves

750. TINY TIM—These novel, miniature, ¾-inch tomatoes are easy to grow in house or garden. They make fascinating colorful house plants as they grow only 12 to 15 inches high and are loaded with clusters of brilliant scarlet miniature tomatoes. Ideal for garnishing, salads, or for use in preserves. Pkt. 25c, 3 pkts. for 65c, prepaid. (Shown in color on page 80.)

752. FARGO YELLOW PEAR—A delicious early tomato of novel appearance. An ideal sort for making fancy pickles, preserves, canning, etc. Fruit is pear shaped and of attractive golden color. Easily grown and yields wonderfully. Do not fail to try it. Pkt. 10c, ½ oz. 35c, oz. 60c, prepaid.

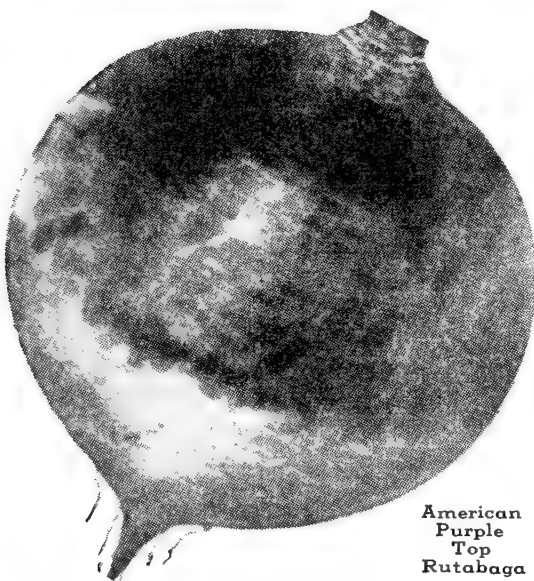
753. GROUND CHERRY OR HUSK TOMATO—(86 days.) This is not a true tomato. Used as a novelty and for preserves. Flavor is outstanding. Excellent in combination with oranges, lemons or ginger. Fruit: small, yellow, round, enclosed in a loose, papery husk. Of delicate flavor. Vine: spreading and flat. Pkt. 10c, ½ oz. 35c, oz. 60c, prepaid.



New Faribo Ground Cherry

754. FARIBO MAMMOTH GROUND CHERRY—Fruits from 2¼ to 2½ inches in diameter, firm, with exceptionally thick walls. Sweet-flavored and fine for making pies and preserves. Plants are vigorous and very productive. The giant fruits are enclosed in a loose, papery husk and turn yellow when ripe. Mature in regular ground cherry season. Pkt. 25c. Seed scarce.

Tender Turnips for Your Table



American
Purple
Top
Rutabaga

One ounce will sow 125 feet of drill—2 pounds per acre in drills; 3 pounds broadcast.

CULTURE—Turnips and Rutabagas do best in highly enriched, light loam soil. In rich soil and cool weather, they grow rapidly, without becoming bitter in flavor. Sow in April, in drills 12 to 15 inches apart, and thin out to stand 8 inches apart in the row. Rutabagas require a longer growing season than turnips and need more moisture. When full grown, they should be pulled, topped and stored in a cool cellar or pit. If cool and sufficiently moist to prevent withering, they will keep all winter.

For control of Root Maggots, use Maggot Destroyer—See Page 21.

760. EXTRA EARLY PURPLE TOP MILAN TURNIP—(40 days.) An extra early sort for home garden and truckers. Of excellent quality. Roots: 4 inch diameter, very flat, white with purple top. Flesh: clear white, fine grained, sweet and tender. Pkt. 10c, oz. 20c, ¼ lb. 35c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

764. EARLY PURPLE TOP STRAP LEAF TURNIP—(45 days.) A medium early productive variety, used extensively for home and market garden planting. Roots: 3 to 5 inch diameter, flat, purple red at the tops, white below. Flesh: white, fine grained and tender. Tops, medium, upright and compact. Pkt. 10c, oz. 20c, ¼ lb. 35c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

762. PURPLE TOP WHITE GLOBE TURNIP—(58 days.) Our pure bred strain is noted for its uniformity and productivity. Roots: 4 to 6 inch diameter, large globe shaped, very smooth, upper part purple-red, white below. Flesh: white, sweet, crisp and tender. Pkt. 10c, oz. 20c, ¼ lb. 35c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

Rutabagas

766. IMPROVED AMERICAN PURPLE TOP RUTABAGA—(88 days.) Our special strain is noted for its uniformity of shape and heavy yield. A dependable variety. Keeps well and of excellent quality. Roots: 5 to 7 inch diameter, large, round with small neck and slight tap root; yellow with purple top. Flesh: light yellow, firm, sweet and tender. Pkt. 10c, oz. 20c, ¼ lb. 35c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

767. LAURENTIAN NECKLESS—(90 days.) A purple top globe having rich yellow flesh, fine-grained, tender and sweet. One of the deepest globes, very smooth and free from excess roots. A splendid keeper. Pkt. 10c, oz. 20c, ¼ lb. 35c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

Here Is One of the Many Letters We Received from Customers Who Grew Our New Faribo Hybrid Tomato

F. S. & N. Co.

Nov. 6, 1947

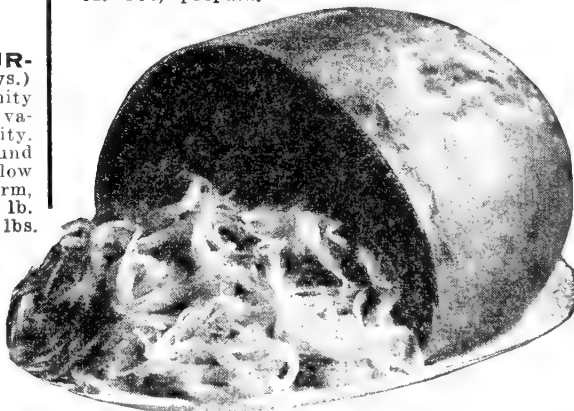
Tried out your new Faribo Hybrid Tomatoes this year and was well satisfied. They ripened in 46 days from planting time, and were still producing October 30th when the frost got them. Picked plenty of Tomatoes from them for 8 weeks. The size is not so big, but the flavor surpasses anything I have ever eaten. Want to put in an acre or more in 1948 so hold out a supply of seed for me—at least 2 ounces.

John Haggerty, Sheridan, New York

Vegetable Spaghetti

775. Smooth, creamy-white fruits, 8 inches long and 5 inches thick. Pick when well matured. Store like squash for winter. Before cooking, puncture one end, place in kettle of hot water and cook 30 minutes. Cut in half, remove center seed core, and flesh will fall out in shreds, suggestive of spaghetti. Serve hot with salt and butter, or with a cream sauce. Pkt. 10c, oz. 30c, prepaid.

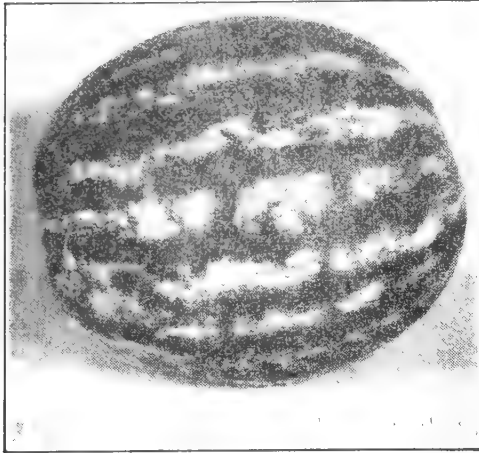
Also Known
as Golden
Macaroni
or Noodle
Squash



Newest
Extra-Early

WATERMELONS

Improved Wilt-Resistant Strains



872. Early Kansas has rich red flesh, a thin rind and very solid center.

Early Kansas

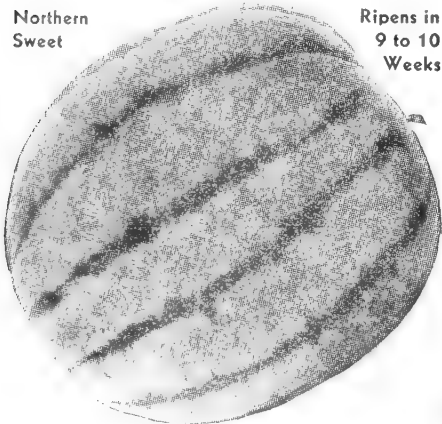
Also known as Red Russian or Red Seeded Hutchinson

872. EARLY KANSAS—(80 days.) Very popular on the markets of the Midwest, due to its earliness combined with large size, and its attractive appearance—plus fine quality. The skin is dark green with alternate stripes of a lighter shade. The rind is of medium thickness—well suited for carrying reasonable distances—and the flesh is a rich red color, of delightful flavor. Average size 15 by 13 inches; weight 40 lbs. Seeds brown. Pkt. 10c, oz. 25c, ¼ lb. 75c, ½ lb. \$1.25, lb. \$2.00, prepaid.

873. WHITE MOUNTAIN—The outstanding feature of this delicious little Melon is its earliness and its perfect "ice-box size." The flesh is brilliant red and sugar-sweet, with a delectable flavor. Approximately 7 inches long and 6 inches in diameter, the skin is light green with irregular stripes of dark green. Pkt. 20c, 5 pkts. for 75c, prepaid.

Northern Sweet

Ripens in 9 to 10 Weeks



Northern Sweet

874. EARLY NORTHERN SWEET—(75 days.) This amazing melon ripens in 9 to 10 weeks from planting. Of an attractive green color, striped with lighter green. Flesh is dark red and tender, with a rich sugary flavor. Weighs 12 pounds. Splendid for early market or home garden. It is important that melons be picked as soon as they ripen, otherwise flesh tends to become slightly stringy. Pkt. 10c, oz. 25c, ¼ lb. 75c, ½ lb. \$1.25, lb. \$2.00, prepaid.

Four ounces will plant 100 hills; sow 3 to 4 pounds per acre.

Culture—The best soil for growing watermelons is light, rich, and sandy. When the ground is thoroughly warm, and all danger of frost is past, drop 8 to 10 seeds in hills 8 to 10 feet apart, covering the seed about an inch. When the plants begin to run to vines, thin out all but the three strongest plants in each hill.

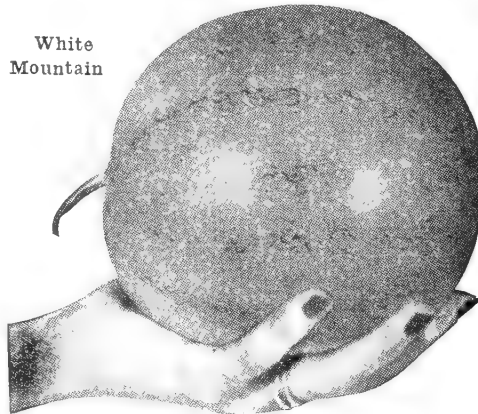
This is Dixie Queen →

875. DIXIE QUEEN—(85 days.) An early melon of excellent quality. It is semi-round, with a thin tough rind and stands shipping. The color is light green alternately striped with dark green. Weight about 32 pounds. The flesh is bright red, crisp and sweet, and the few seeds are small and white. Pkt. 15c, oz. 30c, ¼ lb. \$1.00, ½ lb. \$1.50, lb. \$2.50, prepaid.

A Giant Sweet Melon

876. KLECKLEY'S SWEET—(85 days.) A splendid medium early variety, especially desirable for home garden use and for truckers serving local markets. It will not stand long distance shipping. A melon of outstanding quality and unusual sweetness. Fruit: large, weight 30 to 40 lbs., cylindrical dark bluish green, with thin tender rind. Flesh is bright red, tender and extremely sweet. Seeds white. Pkt. 10c, oz. 25c, ¼ lb. 75c, ½ lb. \$1.25, lb. \$2.00, prepaid.

White Mountain

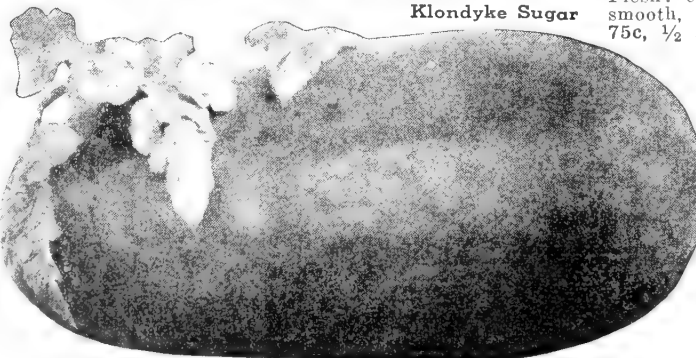


Klondyke Sugar

Wilt-Resistant

878. KLONDYKE SUGAR—(90 days.) For edible qualities and attractive appearance Klondyke is surpassed by no other melon. Solid dark green in color, with slight ribs running lengthwise. The rind is thick enough to stand shipping. Weight 25 pounds. The flesh is scarlet to the rind. A truly delicious melon, high in sugar content. Pkt. 15c, oz. 30c, ¼ lb. \$1.00, ½ lb. \$1.50, lb. \$2.50, prepaid.

Klondyke Sugar



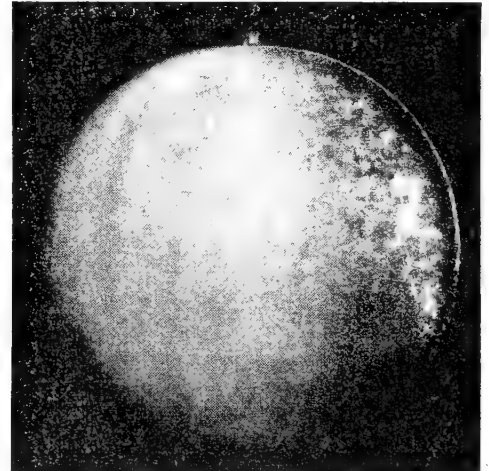
Dixie Queen
One of the
sweetest.



The Latest in Midgets

879. NEW HAMPSHIRE MIDGET—Ideal for the small family garden and especially valuable in northern sections, as it matures extremely early. Most early melons lack quality, but New Hampshire excels in both quality and flavor. Our stock is the result of a 2-year's selection from Dr. Yaeger's improved strain developed at New Hampshire Experiment Station. Fruits 7 to 8 inches long, are just right for individual serving. Our strain has fewer seeds, very thin rind, rich red flesh that is crisp and juicy with extra-high sugar content. Easy to grow, requires little space. Seed is scarce. Pkt. 25c, 5 pkts. for \$1.00, prepaid.

See Inside Back Cover for Color Photo.



Winter Melon Long-keeping Lusciously sweet

880. WINTER MELON—(78 days.) Here's a sweet luscious watermelon for your Thanksgiving dinner, from your own garden. An early sort, very prolific and an excellent shipper. Like Honey Dew in size and keeping qualities. This melon will keep 2 months after picking if properly stored. Fruit: small, weight 10 lbs., round, pale yellow when ripening. Flesh: bright red, crystalline, very sweet. Pkt. 10c, oz. 25c, ¼ lb. 75c, ½ lb. \$1.25, lb. \$2.00, prepaid.

Citron

Used in Sweet Pickles, Preserves and Candied Fruit

890. CITRON—For making preserves. Flesh: clear white and solid. Fruit: round and smooth, quite small. Pkt. 10c, oz. 25c, ¼ lb. 75c, ½ lb. \$1.25, prepaid.

The Pocket BOOK of VEGETABLE GARDENING

By Charles H. Nissley

The latest practical advice on growing food for home use... Includes specially prepared charts showing VITAMIN CONTENTS AND NUTRITIONAL VALUES as well as specific instructions for raising each vegetable. There are charts for 50 vegetables.

241 Pages 52 Illustrations 30c ppd.

Our Vegetable Plant Department

On plant orders less than 60c, add 15c for packing

Transplanted Vegetable Plants

We supply healthy plants of all varieties listed, in their proper season. We cannot accept shipments beyond the 4th zone (600 miles). On plant orders less than 60c, add 15c for packing. 50 or more plants at the 100 rate. Ask for prices on larger quantities. We cannot accept orders for less than one dozen of a variety.

Use Boost'Em Starter Solution on Your Plants—it acts as a Tonic and Rejuvenator, Reduces Transplanting Shock, Stimulates Vigorous Growth, Boosts Yields. See Page 76 for Full Description and Price.

CABBAGE, Early. Ready in April and May. Marion Market (yellows resistant) midseason, Copenhagen Market, Golden Acre, earliest, round head	45c per Dozen
CABBAGE, Late. Ready in June. Hollander or Danish Ballhead (yellows resistant).....	
CELERY, Early. Ready in June. Golden Self Blanching, Giant Pascal (green).....	\$2.25 per 100 postpaid
CHIVES. Ready in April. Per bunch, about 1 doz. plants	
SWEET POTATO PLANTS. Porto-Rico. Ready in May and June. Special price.....	\$1.95 per 100 postpaid
TOMATOES. Ready in May and June. Firesteel, Scarlet Topper, Earliana, Ponderosa, Rutgers, John Baer, Oxheart, Golden Jubilee.....	50c per Dozen \$2.95 per 100 ppd.
CAULIFLOWER. Ready in April and May. Super Snowball	50c per Dozen
EGG PLANT. Ready in May and June. Black Beauty	
GROUND CHERRY. Ready in May and June.....	\$2.95 per 100 postpaid
PEPPER. Ready in May and June. California Wonder, Harris Early	To 4th zone

FOR ONION PLANTS. See page 16.

Asparagus Roots Rust-Resistant 6000 Roots plant an acre

Set Roots 15 inches apart. Plant 15 Roots for each member of the family.

New Early Paradise A sensationally new early maturing variety—produces normal crop one year earlier than other varieties and gives heavier production throughout its life. Large, crisp, tender stalks—exceptionally fine mild flavor. Only 6 to 8 stalks required to the pound.

Paradise Roots: Heavy, two-year-old, 25 for \$1.25, 50 for \$2.00, 100 for \$3.50, prepaid to 3rd zone.—Not prepaid, 500 for \$13.50.

Washington Tips are firm and tight, and do not open out until quite tall. They are dark green and thick, of beautiful appearance when bunched.

Price: No. 1 two-year-old roots, 25 for \$1.00, 50 for \$1.65, 100 for \$2.95, prepaid to 3rd zone.—Not prepaid, 500 for \$11.50.

Ask for free circular, "How to Grow Asparagus."

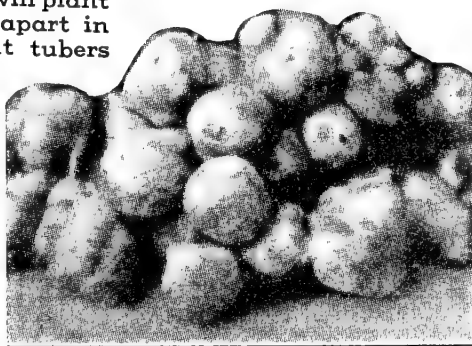
New Improved AMERICAN ARTICHOKE Girasol—The Diabetic's Potato

A valuable food for diabetics and those not permitted to eat starchy foods. Tubers can be eaten cooked, or served raw in salads. They contain carbohydrates in the form of inulin instead of starch and need not be cooked to bring out their food value. Recipe Folder mailed free upon request.

Bushel (50 lbs.)—6 Bu. will plant an acre. Plant 3 ft. apart in rows 3 ft. apart. Cut tubers like potatoes.

Plant Girasol early—it thrives in any soil and yields 10 to 15 tons of tubers per acre, with an equal amount of silage from the tops. Tubers are relished by livestock and poultry.

Price: 5 lbs. \$1.25, 15 lbs. \$3.00, prepaid to 3rd zone only. Not prepaid: 50 lbs. or more at 14c per lb., 100 lbs. at 13c per lb.



New Faribo HYBRID TOMATO PLANTS

Grown & Shipped In Individual Pots.

Supply Limited.

Sensational Extra-Early Hybrid Tomato. Plants grow 6 ft. across, yielding up to 2 bu. each. Highly resistant to blight and disease. Bright red fruits, smooth, globular and free from cracks and blemishes—of superb quality and flavor.

Price: 6 Plants for \$1.00, 12 for \$1.75, 50 for \$7.00, 100 for \$13.50, prepaid.

Frost-Proof Cabbage Plants

No Delivery Beyond 4th Zone (600 Miles).

Not available after May 1.

These plants are extremely hardy, and produce the earliest cabbage, fully three or four weeks ahead of any other plants. They are grown in Texas, during the winter, when the weather is often freezing, enduring cold rains and sleet. They can be set out as soon as the ground can be worked and are not injured by shipping or transplanting.

We offer the three best sorts in bundles of about 45 to 50 of a kind only, which cannot be divided. Prices include postage.

	EARLY	No. of Plants	Price Ppd.
JERSEY WAKEFIELD.	2 Bundles (90-100).....		\$0.75
FLAT DUTCH.	4 Bundles (about 200).....		\$1.25
COPENHAGEN MARKET.	10 Bundles (about 500).....		\$2.25
	20 Bundles (about 1000).....		\$3.50

We reserve right to substitute.

On plant orders less than 60c, add 15c for packing

Pansy Plants Mixed Colors Only—Dozen 85c, ppd. Not prepaid, 100 for \$3.00

Rhubarb Roots Set Plants 4 feet apart with Crowns 2 inches below the surface.

NEW VALENTINE—The last word in fine Rhubarb. Developed by the Ontario Experiment Station, Canada, it is considered the best of the new "all-red" varieties. Valentine has the richest color, the best flavor, the largest stalks and the fewest seed stalks of all the new red sauce producers. Choice Roots, \$1.75 each, postpaid. (Supply scarce, order early.)

Illustrated in Color on Back Cover.

NEW CHIPMAN'S CANADA RED — One of the best of the new improved varieties. Very sweet, tender, of fine flavor, with extra-large stalks, bright red all the way through, the red color extending even to the mid-rib of the leaf. Does not lose its bright color in cooking, and both sauce and pies are an appetizing cherry-red color. Chipman's is vigorous in growth, of the hardy, everbearing type, and does not make seed. Supply of roots limited. Order early. Price: 65c each, 2 for \$1.25, prepaid to 3rd zone.

NEW MACDONALD RED — Produces thick succulent stalks, 18 to 24 inches long, with skin so thin and tender that peeling is unnecessary. Stalks are bright cherry-red from base to top; flesh white, fine-grained, low in acid, with a mild rich flavor. Sauces and pies made from MacDonald require less sugar and have an appetizing red color when cooked. A tremendous yield, it remains tender and can be used over a long period of time. Choice roots: 50c each, 2 for 90c, 6 for \$2.25, prepaid to 3rd zone.

Horse-Radish Roots

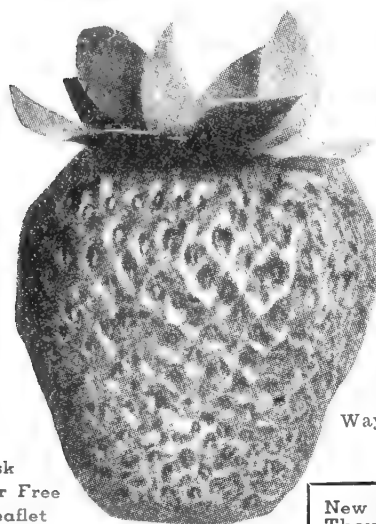
Minnesota grown native planting roots have clear white disease-free flesh. Grate up fine and tender and white as snow. It is just as important to change planting stocks in growing Horse-Radish as it is in growing potatoes to maintain best quality and yields. Price: 12 for 45c, 50 for \$1.25, 100 for \$2.25, prepaid.



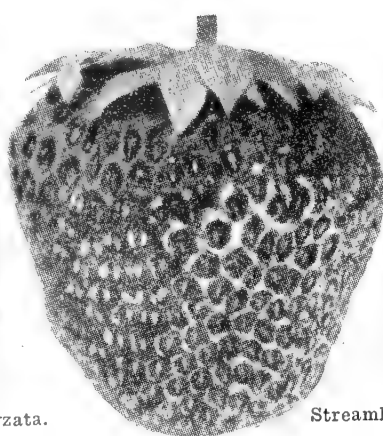
Northern Grown Horse-Radish Roots.

For a 20% Increase in Yields Use Boost 'Em Plant Starter (See Page 76).

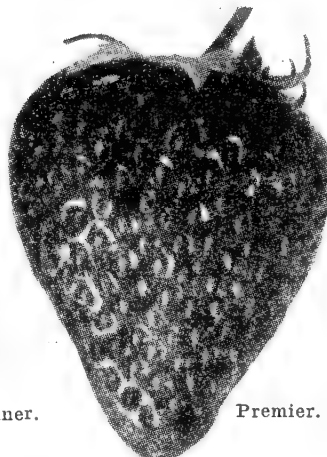
STRAWBERRIES—The New Improved Varieties



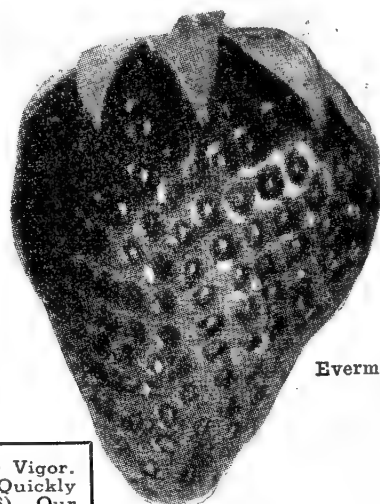
Wayzata.



Streamliner.



Premier.



Evermore.

Ask
for Free
Leaflet
on the Plant-
ing and Care of Strawberries.

New Storage Methods keep Strawberry Plants Dormant to Preserve their Vigor. Though not as Fresh in Appearance as Newly-Dug Plants, they Respond More Quickly and Without Shock. Use Boost 'Em Plant Starter for Best Results. (Page 76). Our plants are grown by a Strawberry Plant Specialist in the Lake Michigan Fruit Growing Area. The Fields are Critically Inspected by State Inspectors during the Growing Season, and are Certified Disease-Free.

JUNE BEARING

Set plants in rows 3 feet apart. Space 2 feet apart in the row. 8,000 plants for an acre.

ROBINSON

Giant Medium-Late
Scarlet Beauty

Ripens soon after Premier and continues bearing right through the late strawberry season, every berry a large one, right up to the last picking. Big round, blunt-pointed berries borne on large, thick fruit stems, well protected with heavy foliage. Solid red all the way through, with a tangy rich sweet flavor found in no other strawberry. Heavy, healthy plants make a fine wide fruiting and picking row. A wonderful shipping and canning berry and a real money maker.

Price: 25 plants for \$1.10, 50 for \$1.90, 100 for \$3.00, 250 for \$6.00, 500 for \$10.00, 1,000 for \$17.00, prepaid to fourth zone.

PREMIER

First Berry on Market.
Long Fruiting Season

Premier bears heavily before other varieties begin and brings top prices when berries are in good demand. Of finest quality, color and flavor, Premier is supreme for eating fresh, canning, preserving, distant and local markets. Plants are long-rooted, drought-resisting and immensely productive, with tall healthy foliage covering blossoms and berries.

Price: 25 plants for \$1.15, 50 for \$1.90, 100 for \$2.90, 250 for \$5.75, 500 for \$9.95, 1,000 for \$16.50, prepaid.

FAIRFAX

Darkest Red of All.
Frost-Resistant

Extra good for canning and jam making because of its beautiful dark red color. The berries are large, round and very firm with a quality comparable only to Wayzata. A heavy bearer and good shipper.

Price: 25 plants for \$1.15, 50 for \$1.85, 100 for \$2.85, 250 for \$5.50, 500 for \$9.00, 1,000 for \$16.00, prepaid.

SENATOR DUNLAP

Always Dependable. Succeeds Everywhere

Beautiful, glossy, dark red color all through, the flavor is delicious, mild and sweet. Wonderful for canning and preserves. The berries are medium to large in size, and medium firm excellent for home use and local markets. Plants are healthy, fast growers and make runners freely. A dependable midseason sort.

Price: 25 plants for 80c, 50 for \$1.25, 100 for \$2.00, 250 for \$4.00, 500 for \$7.00, 1,000 for \$12.50, prepaid.

The Newest and Best EVERBEARERS

Everbearers make few runners and can be planted closely. Make rows 30 inches apart and set plants 15 inches apart in the row. 10,000 plants are required for an acre.

WAYZATA

A Minnesota Variety.
The Favorite Everbearer

Honey-sweet, red to the heart, with small hulls and no green tips, Wayzata challenges the world in flavor, size and productiveness. Newly set plants start to bear in 60 days and continue for nearly six months without let-up, if they are cultivated once each week and all weeds kept out. Plants are hardy and tough, adapting themselves to most any type of soil. Their dark green leathery leaves are rarely attacked by common strawberry plant diseases.

We cannot accept orders for less than 100 Field-grown Wayzatas. For smaller plantings, we recommend Potted Wayzatas described in center of page.

Price: 100 Field-grown plants for \$8.15, 250 for \$19.50, 500 for \$35.85, 1,000 for \$66.50, prepaid.



Grown in pots and especially packed with roots undisturbed. (Illustrated above.)

We cannot accept orders for less than 25 plants per customer. Supply limited. Price: 25 for \$3.75, 50 for \$7.00 prepaid to fourth zone—600 miles. Not prepaid, 100 for \$12.00, 200 for \$22.00.

SCARLET GEM

Money-Making
Everbearer.

Well-shaped, well-colored Berries, solid and deliciously flavored. Plants healthy, vigorous, drought-resistant and productive. Produces a fine crop of berries in the fall—that sell at fancy prices—and again in the spring. More and more Gem is being planted for profit.

Price: 25 plants for \$1.65, 50 for \$2.70, 100 for \$4.25, 250 for \$7.25, 500 for \$13.50, prepaid.

NEW STREAMLINER

The Ideal
Berry for Quick
Freezing

Starts bearing 60 days after setting out plants and continues bearing until heavy frosts. Big, luscious berries of fine flavor and good color—perfect for serving fresh, in shortcake, or for quick freezing. Plants are self-pollinating and heavy yielding—a quart of berries has been picked from a single plant.

Price: 25 plants for \$2.50, 50 for \$4.25, 100 for \$7.25, 250 for \$14.50, 500 for \$22.50, prepaid.

See Back Cover for Color Photo of Streamliner

EVERMORE (Minnesota 1166)

An Everbearer developed by the Minnesota Experiment Station. Produces large, long-pointed berries—solid red clear through—with a flavor second to none. A splendid shipper and a great commercial variety, Evermore has been known to keep 5 days without refrigeration, and not to mold or spoil in the hottest weather. For best results in fruit production, we recommend that the runners be pinched off as fast as they appear in summer.

Price: 25 plants for \$1.95, 50 for \$3.00, 100 for \$4.85, 250 for \$9.85, 500 for \$17.00, prepaid.

NEW SUPERFECTION

Produces Berries 90 Days
After Planting

Originated in the heart of the Michigan fruit producing belt, this New Everbearer is definitely one you will want to grow. Deep red all the way through and sweet as sugar, the berries are very large and almost round in shape, they are firm enough to stand distant shipping. A good plant maker and vigorous grower, Superfection begins producing fruit 90 days after planting first season and continues until hard freezing weather.

Price: 25 plants for \$2.75, 50 for \$5.00, 100 for \$9.00, prepaid to fourth zone.

AMERICAN BERRY BASKETS

Materials are still scarce, but we have been assured American Berry Baskets and offer them subject to delivery and further price changes.

Prices for American Berry Baskets:

Quart Baskets: 100 for \$2.40, prepaid to 3rd zone. Not prepaid, 250 for \$4.40, 500 for \$7.95, 1,000 for \$14.50.

Pint Baskets: 100 for \$1.90, prepaid to 3rd zone. Not prepaid, 250 for \$3.90, 500 for \$6.80, 1,000 for \$12.50.

Weight: 500 qt. size, 63 lbs.; 500 pt. size, 35 lbs.

Crates Not Available.

What You Should Know Before You Buy NURSERY STOCK

Common rooted fruit trees may look the same as Northern rooted trees—may even start all right. But when the first hard winter comes along, with little or no snow for protection, common rooted trees are quite sure to be injured or even killed, leaving a dead or crippled orchard.

An apple tree is no harder than the root it is grafted on. Hardy root stocks are as vital to your orchard as a good foundation is to your home.

Actual tests show that common, tender root stocks are the greatest cause of failure in the orchard. Commercial growers know how important root stocks are to the life of their trees.

In tests, 50 common rooted, and 50 Northern rooted trees of same size were planted under identical conditions. Note the difference at 17 years. Many common rooted trees are gone entirely—those remaining are one-third the size of the Northern rooted trees, and produced one-fifth as much fruit. So beware of common rooted, Southern grown stocks. See the difference in the photo shown here.



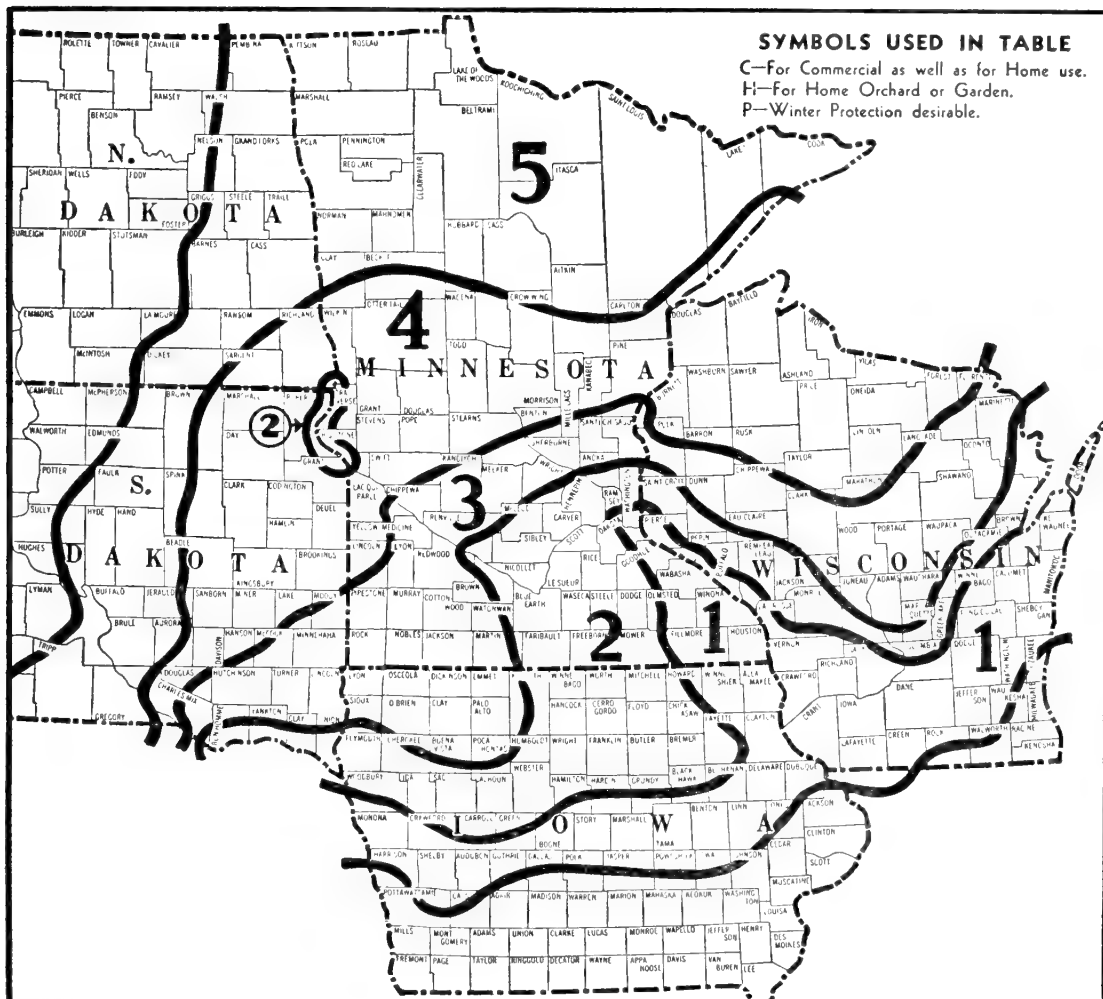
Left—17-year-old McIntosh grafted on common root stock. Root could not endure Minnesota conditions—it died completely, leaving tree to exist on small scion roots which sprouted above the graft. Result: weak growth—poor crops.

Right—17-year-old McIntosh grafted on our special Northern roots. The success of this tree is due to the hardy, sturdy root which anchors tree securely and makes possible vigorous growth and heavy crops.

PLANT NORTHERN ROOTED FRUIT TREES

FRUIT VARIETIES FOR THE UPPER MIDWEST

The varieties suggested for planting in each zone on the map below, are selected not only for hardiness required in the zone, but also for their ability to mature fruit in the duration of the average growing season in each zone. Where a variety is suggested only in Northern zones, it indicates that better quality varieties should be grown in more southern zones.



RASPBERRIES RECOMMENDED:

Fruit Growing Zones:	1	2	3	4	5
Chief (red)	C	C	C	CP	CP
Latham (red)	C	C	C	CP	CP
Sunrise (red)	H	H	C	CP	CP
Indian Summer (red)...	H	H			
Sodus (purple)	H	H	HP	HP	
Cumberland (black)	HP	HP	HP		

APPLES RECOMMENDED:

Fruit Growing Zones:	1	2	3	4	5
Anoka				H	H
Cortland	C	C	H		
Delicious	H	C	C	H	H
Haralson	C	C	C	H	H
N. W. Greening	C	C	C	H	H
Red Van Buren	C	C	C	H	H
Wealthy	C	C	C	H	H
Yellow Transparent			C	H	H
New Beacon	C	C	C	H	H
New Fireside	C	C	C	H	H
New Minn. 790	C	C	C	H	H
New Minn. 714	C	C	C	H	H
New Prairie Spy	C	C	C	H	H
New Redwell	C	C	C	H	H
New Victory	C	C	C	H	H
Minnetonka Beauty	C	C	C	H	H
Dolgo Crab	C	C	C	C	C
Piotosh Crab	C	C	C	C	C
Red Flesh Crab	H	H	H	H	H
Red River Crab			H	H	H
Whitney Crab	C	C	C	C	C

PLUMS & PRUNES:

Kaga			H	H	H
Minn. 101	H	H	H	H	H
Mt. Royal	H	H	H	H	H
Pipestone	H	H	H	H	H
Redcoat	H	H	H	H	H
S. Dakota 27	H	H	H	H	H
Superior	H	H	H	H	H
Toka	H	H	H	H	H
Dietz (Prune)	H	H	H		

CHERRIES: Hybrid & Bush

Compass			C	H
Opata			H	H
Sapa	C	C	C	C
Sapalta	C	C	C	C
Brooks	H	H	H	H
Dakota Amber	H	H	H	H
Hansen	H	H	H	H
Korean	H	H	H	H
Nanking	H	H	H	H

PEARS:

Bantam	H	H	H	H
Parker	H	H	H	H
Patten	H	H	H	H
Sodak	H	H	H	H

GRAPES:

Beta	H	H	H	CP
Blue Jay	H	H	H	HP
Fredonia	H	HP	HP	
Moonbeam	H	H	HP	HP

Order NORTHERN FRUIT STOCKS Early! ★ ★ ★

EARN FREE GIFTS

With Your EARLY Nursery Order
Look for the 3 Stars: ★ ★ ★

Order Nursery Stock from any 3 star page (any page marked with 3 stars at the top: ★ ★ ★). Send us this order with full remittance BY MARCH 15, 1948, and you may choose from the FREE GIFT list below, one gift for each \$5.00 worth of stock you order from 3 STAR PAGES. For example: if your 3 STAR ORDER totals \$5.00, you may select one gift, if it totals \$10.00, select 2 gifts, and so on.

(FREE GIFTS)

- | | |
|---|-----------------------------------|
| (A) 4 Chief Raspberries, 1 yr. | (F) 1 Baby White Birch, 12-18 in. |
| (B) 3 Indian Summer Rasp., 1 yr. | (G) 1 Norway Poplar, 2-4 ft. |
| (C) 3 Sunrise Raspberries, 1 yr. | (H) 2 Bittersweet Vines, 2 yr. |
| (D) 1 Hansen Bush Cherry, 18-24 in. | (I) 1 Russian Olive, 12-18 in. |
| (E) 1 Blue Leaf Arctic Shrub, 12-18 in. | (J) 1 Lombardy Poplar, 2-4 ft. |

Gifts must be REQUESTED on orders and are given only on 3 star NURSERY ORDERS sent us by Mar. 15. We reserve the right to substitute if some items are out.

COMPLETE PLANTING, PRUNING, SPRAYING
INSTRUCTIONS INCLUDED
WITH EACH ORDER.

\$1.00 Nursery Bargains

- | | |
|--|-------------|
| 2 Hardy Cherry Plum Hybrids, 2-3 ft. | \$1.00 ppd. |
| 3 Norway Poplar, 4 ft. | \$1.00 ppd. |
| 1 New Summer Apple (our choice), 4 ft. | \$1.00 ppd. |
| 1 New Fall Apple (our choice), 4 ft. | \$1.00 ppd. |
| 1 New Winter Apple (our choice), 4 ft. | \$1.00 ppd. |
| 3 Indian Summer and 3 Chief Raspberries, 2 year. | \$1.00 ppd. |
| 3 Sunrise and 3 Indian Summer Raspberries, 2 year. | \$1.00 ppd. |
| 5 Blue Leaf Shrub, 12-18 in. | \$1.00 ppd. |
| 2 Hardy Pear, (our choice), 18-24 in. | \$1.00 ppd. |
| 4 Hansen's Bush Cherry, 18-24 in. | \$1.00 ppd. |



D & P FRUIT SPRAY for HOME GARDENERS

For you "home garden" fruit growers who have only 3 or 4, or a dozen fruit trees of various sorts, here's a new "one-package" insecticide—fungicide spray preparation for apples, pears, plums, cherries, peaches, grapes, berries and other fruits. It enables you to apply a simple but complete spray program for all the various applications, except dormant spray. Contains the newest chemicals for insect and disease control including DDT, and the amazing new Thiophos 3422. Controls Coddling Moth, Curculio, Tent Caterpillar, Apple Maggot, Leaf Hoppers, Japanese Beetle, Oriental Fruit Moth, and diseases like Scab, Powdery Mildew, Brown Rot, and others. All in one package with full directions.

- | | |
|---|-------------------|
| 1 lb. Canister (makes 10 gals. solution), | \$1.50, postpaid. |
| 5 lb. Canister (makes 50 gals. solution), | \$5.50, postpaid. |

About Shipping

SMALL ORDERS—On nursery orders under \$1.00, it is necessary to include 15c extra packing charge due to high cost of properly packing live plants. No packing charge on orders of \$1.00 or more.

SHIPPING CHARGES—Nursery orders in which all items are quoted prepaid, (such as berries, grapes and roses) will be sent prepaid to the 4th zone or 600 miles only. Beyond that, extra postage will be requested.

NOT PREPAID ITEMS are too large to mail, and will be shipped express or freight. Customer to pay express or freight charges when he receives shipment.

ORDERS CONTAINING BOTH Prepaid and Not Prepaid Nursery items will be sent in one shipment by express, not prepaid. With these shipments we will include extra stock representing a greater value than the postage on any prepaid items included in shipment, would amount to.

NO NURSERY SHIPMENTS INTO THESE STATES—because of great distances and high permit fees: Florida, New Mexico, Nevada, West Virginia and Canada.

SHIPPING TIME—We start shipping about March 15, depending on weather, and continue through April and May. We try to have shipment arrive at best planting time in your section.

About Landscape Plans

If you are anxious to secure an accurate, properly balanced landscape plan that is tailor made to fit your home grounds complete with specifications, laid out in an easy to read manner, send for our Sketch Sheet.

On this sheet are full instructions to help you in making up the rough sketch for your home and grounds.

SEND US A SKETCH AND MEASUREMENTS OF YOUR GROUNDS.

Upon receipt of your rough sketch and \$5.00, our landscape department will prepare a complete plan, together with a planting list, of hardy evergreens, trees, and shrubs best suited to your soil and conditions. This fee applies to average city lots. Larger area plans, priced in proportion.

MONEY SENT FOR PLAN WILL BE APPLIED ON ORDER.

If your nursery order totals \$40.00 or more, the \$5.00 will be credited to the order, thus making this Landscape Service absolutely free.

If you desire a foundation planting only, the landscape fee is \$2.50 and will be credited on your nursery order of \$25.00 or more. No plans can be prepared after March 15.

OUR FAIR PLAY GUARANTEE

All of our Nursery Stock carries the Minnesota Inspection Certificate and is guaranteed true to name and in good growing condition. If for any reason you do not find everything just as represented, notify us at once and we will order shipment returned, refund your money, or replace the items without charge.

Any tree or plant that dies the first growing season we will replace at half the catalog price, the following spring, if loss is reported by October 15th following date of purchase.

We cannot be responsible for losses other than the above.

Grow HARDY PEARS that Thrive in the NORTH

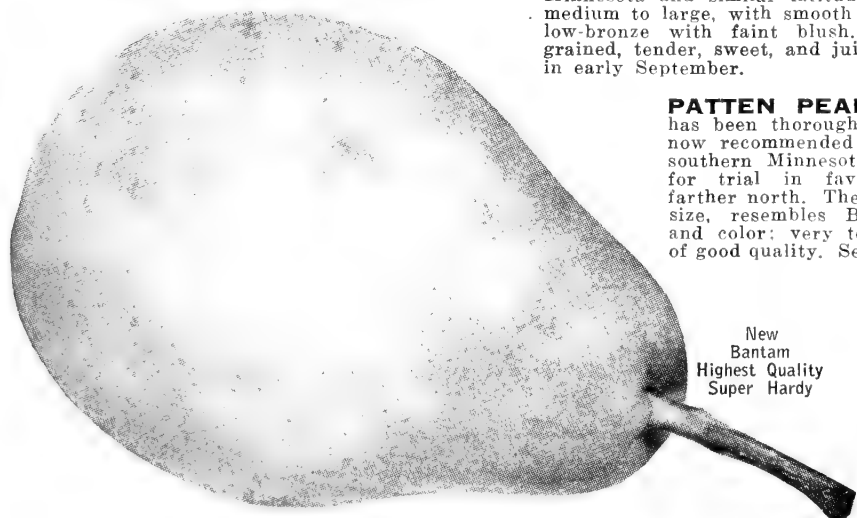
Northern Fruit Growers: See page 29 for varieties best fitted to your climate.

PARKER PEAR—Introduced by the Minnesota State Fruit Farm, this splendid pear is now recommended for the southern half of Minnesota and similar latitudes. The fruit is medium to large, with smooth skin; color, yellow-bronze with faint blush. Flesh is fine-grained, tender, sweet, and juicy. Fruit ripens in early September.

PATTEN PEAR—This pear has been thoroughly tested and is now recommended for planting in southern Minnesota and suggested for trial in favorable locations farther north. The fruit is of good size, resembles Bartlett in form and color; very tender, juicy and of good quality. Season, September.

BANTAM PEAR—NOW a real high quality eating pear, with hardness of a Duchess apple! Latest sensation of Minn. Fruit Farm. Flavor of the luscious fruit—a big surprise. Not a large pear—but makes up in quality what it may lack in size. A vigorous grower, free from blight, stands severe cold. Ideal for lawn planting.

NEW SODAK PEAR—A new pear from South Dakota that appears hardy in central sections of Minnesota. Fruit is of the long type, about two and a half inches in diameter, with very juicy, melting white flesh and very few seeds. It combines hardness with splendid eating quality.



PRICES: HARDY PEARS

PEARS:	SIZES	1 to 4	5 to 9
		EACH	EACH
New Bantam-----	{ 2 to 3 ft. (Not Branched)-----	\$1.15	\$1.05
Parker -----	{ 3 to 4 ft. (Not Branched)-----	1.40	1.30
Patten -----	{ 4 to 5 ft. (Not Branched)-----	1.65	1.55
New Sodak-----	{ 2 to 3 ft. (Not Branched)-----	1.25	
	{ 3 to 4 ft. (Not Branched)-----	1.50	

Certified RASPBERRY PLANTS ★ ★ ★

BIG RED LATHAM

One Inch in Diameter!—

The nationally known King of Red Raspberries. Originated in Minnesota, and grown everywhere. A perfectly hardy, strong, vigorous grower, outyielding all others. Most profitable for market. Quantity prices below.

RED CHIEF—Ten Days Earlier

Popular early variety—most profitable for early marketing. For continuous fruit production we recommend Chief and Latham. Excellent quality and good yielder. Quantity prices below.

INDIAN SUMMER

Everbearing Red Raspberry

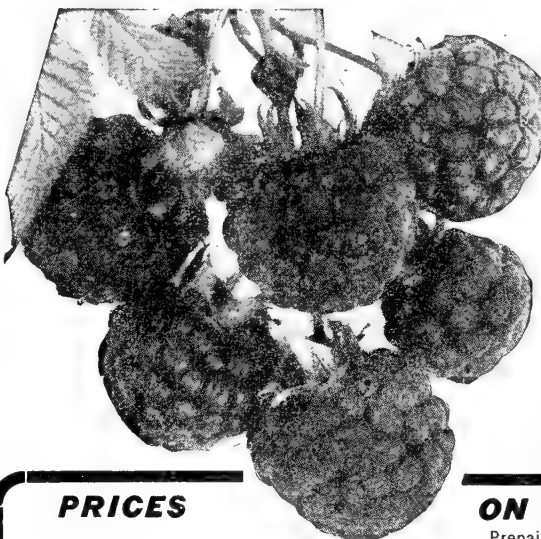
A new Two-crop Red Raspberry developed by the New York Experiment Station. Bears in summer and again in fall, continuing until frost. The berries are large, somewhat conical, of medium red color and high quality. Plants are hardy and vigorous growers. A real chance to profit from fall marketing. Quantity prices at right. See color photo inside front cover.

NEW U. S. SUNRISE

Extra Early—Fine Quality

A brand new red raspberry just released by U. S. Dept. of Agriculture. Be the first to grow this super quality fruit! It's extra early—(2 weeks ahead of Latham), yet berries are large and have better texture, finer quality and more flavor than Latham. Very hardy and disease resistant. Supply limited. Prices at right. Color photo on page 40.

Minnesota Grown and State Inspected Plants



FREE 5 Page Leaflet on Planting and Care of Red Raspberries.

NEW SODUS

Purple Cap Raspberry

A new Raspberry especially noted for fruit production. Berries are large, firm, fine quality and have a wine-red, purple color. You will prize this variety highly. Prices below.

CUMBERLAND

Black Cap Raspberry—

Most profitable Black Cap berry to grow—produces big crops year after year—succeeds on all kinds of soil. Berries extra large, glossy-black. Prices below.

PRICES

ON RASPBERRY PLANTS

	Size	Prepaid to 4th Zone—(600 miles)					Express not ppd.		
		6	12	25	50	100	200	500	1000
Red Chief	1 yr. Standard.....	\$0.80	\$1.35	\$2.35	\$4.25	\$ 7.85	\$13.50	\$25.65	\$45.00
	2 yr. Heavy.....	1.00	1.75	3.15	5.70	10.50	18.00	34.20	60.00
Latham or	1 yr. Standard.....	0.90	1.55	2.75	4.95	9.15	15.75	29.85	52.50
New U. S. Sunrise	2 yr. Heavy.....	1.15	2.00	3.55	6.40	11.75	20.25	38.45	67.50
Indian Summer	1 yr. Standard.....	1.00	1.75	3.15	5.70	10.45	18.00	34.20	60.00
	2 yr. Heavy.....	1.25	2.25	3.90	7.15	12.95	22.50	42.75	75.00
Sodus Purple or	2 yr. Heavy.....	1.85	3.45	6.45	12.15	21.65			
Cumberland Black									
Alfred Blackberry	1 yr.....	.80	1.35	2.35	4.25	7.85			
Boysenberry	1 yr.....	1.20	2.00	3.55	6.40	11.75			

GRAPES

FREDONIA *Early Black Grape*

The earliest large-berried Grape for the North—three weeks earlier than Concord. Vines are vigorous—clusters of medium size, very compact. Offers great opportunities for market or home use. Prices below.

BETA GRAPE *Hardy as Wild Grapes*

Always dependable, producing heavy crops every year. Fruit of medium size, good quality, early—excellent for jelly and grape juice. Prices below.

*Newest Hardy
Minnesota Grapes*

NEW MOONBEAM GRAPE

A remarkable triumph of Minnesota's State Fruit Breeding Farm! A full sized, unusually sweet flavored, green grape that requires no winter protection in Southern Minnesota. (See map page 29.) Splendid dessert quality. Its attractive foliage makes it the ideal arbor plant. Ripens only slightly later than Beta. Prices below.

NEW BLUE JAY GRAPE

Another famous new Minnesota grape. A hardy blue grape, as large as Concord, with superb dessert quality when fully ripe. Makes delicious juice and jelly. Best of all, Blue Jay requires no winter cover! This particular variety should be planted near some other variety to insure pollination. Prices at right.

F. S. & N. Co. June 23, 1947

I want to tell you that my Red Raspberries are going to bear quite a crop for newly set plants. All three varieties are growing and bearing and we had not looked for a crop the first year. The root of Chipman's Rubarb has six stalks and looks like an old resident.

F. L. Turby, Des Moines, Iowa.

BERRIES

BLACKBERRY ALFRED

A crop the second season. Berries are twice as large as ordinary blackberries—often 1½ inches long. The ideal table berry—of fine flavor and practically coreless, with but few small seeds. Stands 35 below zero.

(See Prices under Raspberries, above.)

MAMMOTH BOYSENBERRY

The largest bramble berry. Berries are 1½ to 2 inches long, and of purple color. Flavor is superb and rich. A pleasing blend of Raspberry and Dewberry—fine for eating fresh or canned. A real money maker for market. Requires some winter protection.

(See Prices under Raspberries, above.)

JUNE BERRY

Resembles the delicious Blueberry. Looks like it, tastes like it, makes luscious pies and sauce like it. But it's easy to grow and quick to bear. No special care—thrives in any soil—very hardy. It's an ornamental shrub with edible fruit. Price: Listed under Flowering Shrubs, Page 38.

CRANBERRY Highbush

Beautiful flowering shrubs, later loaded with huge clusters of bright red berries that hang on way into winter. Berries make jelly that looks and tastes exactly like grocery cranberries. Price: Listed under Flowering Shrubs, Page 38.

CURRANTS

RED LAKE CURRANTS (Minn. 24)

A Minnesota introduction producing heavy crops of big, red berries in long clusters. The bushes are strong and vigorous with healthy foliage. Makes beautiful sparkling bright red jelly. Prices below.

NEW CASCADE CURRANT (Minn. 70)

A new high quality, extra big fruited currant from Minnesota that has a larger berry and ripens a week earlier than Red Lake. Just as hardy and heavy yielding as Red Lake but has shorter stems and more upright growth. Prices below.

GOOSEBERRIES

NEW "PIXWELL" GOOSEBERRIES

Developed by Dr. Yeager at North Dakota Station. Has very few, soft thorns. Berries hang 2 inches below branches and are much easier to pick than other kinds. Extremely hardy even in Canada. The large bushes bear heavy loads of super-quality fruit.

CARRIE GOOSEBERRIES

A heavy yielder of good-sized fruit. Perfectly hardy and recommended by Professor Hansen as foremost in quality and productiveness.

PRICES ON GRAPES—CURRANTS—GOOSEBERRIES

	All Prepaid	Each	Three	Six	Ten
GRAPES:					
Fredonia or Beta	2 yr.....	\$0.40	\$1.15	\$2.15	\$3.40
NEW GRAPES:					
Moonbeam or Blue Jay	2 yr.....	.95			

	All Prepaid	Each	Three	Six	Twelve
CURRANTS:					
Red Lake.....	2 yr. light..	\$0.50	\$1.25	\$2.35	\$4.35
	2 yr. heavy..	.65	1.85	3.20	5.85
Cascade	2 yr. light..	.60	1.70	3.00	5.35
	2 yr. heavy..	.75	2.15	3.85	6.85
GOOSEBERRIES:					
Pixwell	2 yr., postpaid.	.95	2.70	5.35	9.50
Carrie	2 yr., postpaid.	.75	2.10	3.85	

NORTHERN ROOTED

APPLE TREES

SEE COLOR
ILLUSTRATIONS
ON PAGE 40

Reliable Old Favorites

ANOKA—A summer apple that ripens very early. Sometimes bears second year after planting, but fruit lacks quality. Beacon and Van Buren produce better fruit.

CORTLAND—(Improved McIntosh.) A late fall apple developed by New York Experiment Station. Fruit resembles McIntosh, but is more firm, yet just as juicy. Cortland does not drop as readily before picking and ships better. Bright red color, top-notch quality.

DELICIOUS—A favorite winter apple that's dependable only in the most favorable areas of southern Minnesota and further south. See map, page 29. Fruit is large, all red, sweet and delicious.

DUCHESS—(See Red Van Buren).

HARALSON—The most popular winter apple among Minnesota commercial growers. Large size, deep red color, and excellent flavor. Keeps in perfect condition until late spring. Free from blight and tends to bear early. Can be grown throughout Minnesota.

NORTHWESTERN GREENING—A popular old winter variety, with large, smooth, handsome green fruit, turning yellow when mature. A good winter keeper and a splendid cooking apple, especially fine for pies.

RED VAN BUREN—A summer apple of Duchess type, but with better color—it's solid red! Ripens in Duchess season, it's just as hardy, it has all the good qualities of Duchess, but much more attractive.

WEALTHY—One of Minnesota's most popular late fall apples. Bright red, large size, with juicy, sprightly flavor. A good eating apple that yields heavily and keeps into December. Grown throughout Minnesota.

YELLOW TRANSPARENT—The familiar early yellow apple. Ripens very early, bears young, heavily and every year. Fruit is medium size, tender and juicy. Fine flavor for eating or cooking.

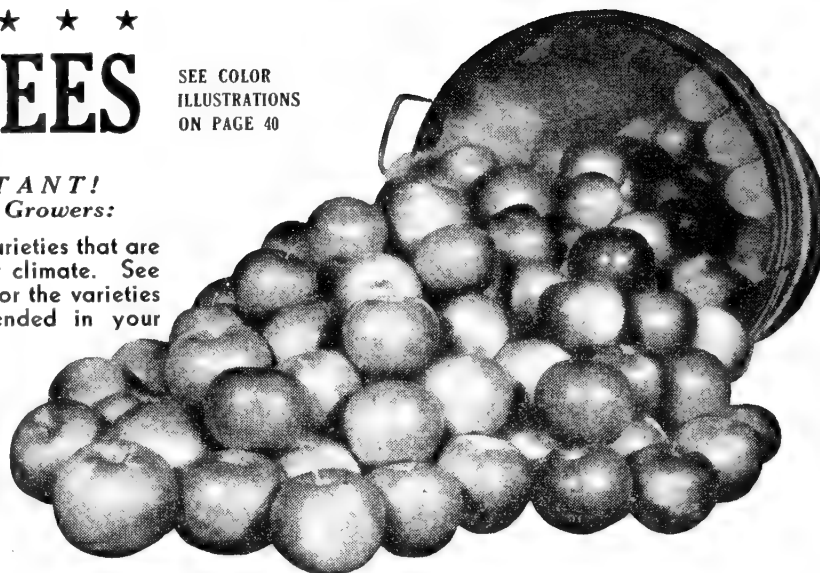
A New Patented Apple

NEW MINNETONKA BEAUTY—(Plant Patent 474.) A most promising new winter apple for areas as far north as St. Paul. Important features: Quality is exceptional—pleasantly mild, sub-acid—it's considered as good as Delicious! Hardy for the southern one-third of Minnesota. Attractively colored, bright red. Ripens September 20 to 30. An unusually good keeper, it maintains quality into spring months. (See page 40.)



IMPORTANT! Northern Fruit Growers:

Be sure to select varieties that are best fitted to your climate. See map on page 29 for the varieties that are recommended in your area, for the home orchard, or for commercial planting.



New Apples from Minnesota's Experiment Station

NEW BEACON—A better summer apple that ripens a few days after Duchess, but is not so perishable. It keeps well into Wealthy season! There's no finer early red eating apple—it's highly colored, has fine quality and flavor, it's solid red, very hardy and a heavy bearer.

NEW FIRESIDE—NOW! A MINNESOTA DELICIOUS that's hardy for Minnesota! Truly a triumph of fruit breeding. Flavor and texture even better than Delicious, although fruit is not so highly colored. Fireside is a large, long keeping winter apple with the finest flavor ever produced at Minnesota's Fruit Farm. Flesh is crisp, sweet, juicy—never becomes "flat and mealy."

NEW MINJON—A Minnesota Jonathan that thrives and produces in Northern Minnesota! It's season is late fall, following Wealthy. It bears regularly, heavy loads of brilliant all-red apples. It colors up well and hangs tightly to tree until picked.

MINNESOTA NO. 790—A new baking apple that has proved better than Rome Beauty in Hotel & Restaurant Association tests! A beautiful large red winter apple that holds its shape when baked. Nothing finer for pie or sauce. Hardy, heavy yielder, hangs well on tree.

MINNESOTA NO. 714—A new harvest apple from Minn. Fruit Farm. Prof. Alderman (U. of Minn.) says of it: "A large attractive, early summer apple of top quality for dessert or cooking." Destined to replace such varieties as Yellow Transparent. Color is red over yellow. Profitable for home or market.

NEW PRAIRIE SPY—An extra long-keeping winter apple with the BEST QUALITY of any available in late winter and early spring! For eating or cooking it's unsurpassed by any apple that stands up so well in storage for many months. It bears very young and heavily, fruit is big, bright red and of excellent flavor.

NEW REDWELL—A new early winter apple from University Farm. Above medium size and bright solid red. Moderately juicy, its pleasantly mild flavor makes it a good eating apple of Wealthy type. Excellent for baking and cooking. Fruits hang well to trees even in high winds. A dependable bearer. Keeps until January.

NEW VICTORY—A new Minnesota model of the old McIntosh! It has McIntosh shape, color and quality but ripens a week later, and keeps a month longer. Flesh is firmer, color is better, tree is hardier, fruit is not inclined to drop before harvest and it cooks and bakes better than McIntosh.

—The Finest in Crab Apples—

NEW PIOTOSH CRAB—A new crab from Canada that's even better than Whitney for eating, canning, pickles, or preserves. Medium large, bright red color, very attractive. Bears heavier than Whitney, with better quality, flavor and hardness.

NEW RED RIVER CRAB—A cross of Dolgo Crab with the famed Delicious Apple! It combines beauty and jelling quality of Dolgo with the sweet flavor of Delicious. Hardy in Canada.

RED FLESH CRAB—A novel crab of striking appearance. Red flowers, bright red apples with red flesh! Makes brilliant red apple sauce, jam or jelly. Delightful flavor. Perfectly hardy.

WHITNEY CRAB—A favorite in the home for canning and preserving. Fruit is of good size—very highly colored. Immense crops.

DOLGO, THE LAWN TREE CRAB—Has rare beauty as an ornamental lawn tree, and is perfectly hardy. The apple itself is a very rich red, and jells perfectly, even when dead ripe. A fine canning crab.

APPLE TREE PRICES

FRUIT TREES SHIPPED EXPRESS NOT PREPAID		1 to 4 EACH		10 or more EACH
STANDARD VARIETIES:		SIZES		
Anoka	N. W. Greening	} 3 to 4 ft.		
Cortland	Red Van Buren		\$0.75	\$0.70
Delicious	Wealthy		1.00	.95
Haralson	Yellow Trans.	} 4 to 5 ft.	1.25	1.15
NEWEST APPLES:		} 3 to 4 ft.	1.00	.95
Beacon	Minn. 714			
Fireside	Prairie Spy		1.25	1.20
Minjon	Redwell	} 4 to 5 ft.	1.50	1.40
Minn. 790	Victory			
SPECIAL PATENTED APPLE:		} 3 to 4 ft.	1.45	1.40
	Minnetonka Beauty		1.70	1.65
			1.95	1.85
CRAB APPLES:		} 3 to 4 ft.	.75	.70
	Piotosh		1.00	.95
	Red River		1.25	1.15
	Red Flesh	} 4 to 5 ft.		
		} 5 to 6 ft.		

NEW
BEACON
Ripens
with Duchess
but keeps
for 30 days

HARDY JUMBO PLUMS from the NORTH!

NEW PIPESTONE PLUM—Minnesota's newest "JUMBO" plum! Largest of all and much better than most plums now grown. Extra early—ripens first week in August. A heavy cropper—exceptional eating quality and also excellent for canning. Color photo, page 41. Prices below.

NEW REDCOAT—(Free Stone). This brand new Minn. State Fruit Farm plum bears heavy loads of choice quality, all red, prune shaped fruit, with a perfectly free stone. A grand improvement over Red Wing and older plums. Prices below.

NEW MINNESOTA NO. 101—A new release from Minnesota's Fruit Breeding Farm. Prof. Alderman reports: "This large, handsome plum has been widely tested in this region. Fruit is dark bronze-red with orange flesh, clingstone. Quality very good for eating fresh, and for jam or jelly." Prices below.

MT. ROYAL BLUE PLUM—Now you can grow these big European Type Blue Plums in your own back yard, instead of buying "shipped in" fruit from the grocery. Fruit is a beautiful blue—makes delightful dessert, jam or preserves. Tested in Minnesota and Canada for extreme hardiness. A big yielder and self-fertile (a single tree will bear fruit). Prices below.

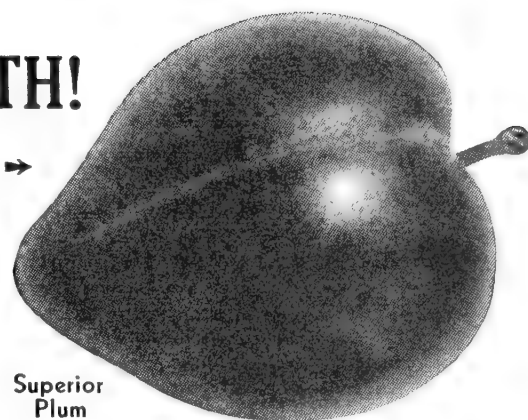
SUPERIOR—A hardy plum originated at the State Fruit Breeding Farm by crossing big California Burbank varieties. As large as California plums, surpassing them in quality and hardiness. Firm flesh, beautiful red color, peels like a peach. Prices below.

- Pollinizer Plums -

SOUTH DAKOTA 27—(Sugar Plum.) This large, attractive red and yellow plum has proved a good pollinizer for other plums on this page. It has unusual ability to make other plums bear, and it also bears fruit of very high quality, for eating fresh or for canning. Prices below.

NEW TOKA—One of the richest flavored of all—very sweet with a spicy, tangy flavor. One and one-half inch fruits of beautiful apricot color with firm yellow flesh and free stone. Very hardy, ripens late August. An efficient pollinizer for other plums. Prices below.

KAGA—An outstanding canning plum originated by Prof. Hansen. Has a distinct, delicious flavor, and is sometimes called the apricot plum. For canning or jam, it is unsurpassed. A fine pollinizer for any plums on this page. Prices below.



Superior Plum

New! A Prune for the North

NEW DIETZ PRUNE—A new fruit introduced from Southern Russia! Hardy almost anywhere in U. S. Heavy crops are borne all along the limbs. Fruit, very sweet, makes delicious sauce. (Color photo page 40.)

3 to 4 ft. trees (by Exp. not ppd.). Each \$1.65, 3 for \$4.65.

4 to 5 ft. trees (by Exp. not ppd.). Each \$1.85, 3 for \$5.20.

HARDY CHERRIES *that Thrive in* SEVERE CLIMATES!

New Chinese Bush Cherries

True Cherries from the Orient, selected and improved at Minn. and Canadian Experiment Stations.

IMPROVED NANKING CHERRY—U. of Minn. selections from Northern China's cherries! Graceful 7 ft. shrubs, radiant with bloom in spring, loaded with long ropes of bright red fruit of "true cherry flavor" by mid-July. Splendid for pies, sauce or preserves—delicious eaten fresh. Often bear second year. Insist on budded stock—seedlings are inferior. Plant two or more to insure pollination. (See page 41.) Prices below.

NEW KOREAN CHERRY—Dwarf 3½ ft. plants are a mass of gorgeous blooms in spring, followed by loads of delicious full-sized bright red cherries—sweeter than commercial pie cherries. Makes appetizing pies, tasty sauce and preserves. Very hardy—often bear second year. Plant two or more to insure pollination. (See page 41.) Prices below.

The Best Hybrid Cherries

These delicious hybrid cherries become more popular every year. Extremely hardy—thrive in any soil (even sand)—bear big crops in two or three years. Ideal for canning, sauce, or pies. Sapa is delicious eaten fresh.

SAPA CHERRY—A big purple-red cherry with delicious wine red flesh. Thin skinned, small pit. Makes pies and sauce of most appetizing color and flavor. Often sets fruit second year. Yields best if grown as a large bush by pruning severely—cutting out older growth annually. Plant with Hansen Bush Cherry to insure pollination. Prices below.

NEW SAPALTA—A big flavorful hybrid cherry from Canada. Fruit of Sapa type, but sweeter and less cling-stone. Delicious eaten fresh, fine for canning, pies, sauce, preserves. See page 41. Plant with Hansen bush cherry pollinator. Prices below.

COMPASS CHERRY—Hardy throughout the Northwest and Canada. Fruit is black, of medium size and good quality. Makes delicious pies, preserves, etc. Plant a Hansen Bush Cherry also to insure pollination.

OPATA CHERRY—Bears loads of dark purple red cherry-plums, generally the second year. Excellent to eat out of hand. Fruit ripens very early in August, is thin skinned and has very small pit. Plant a Hansen Bush Cherry also to insure pollination.

American Bush Cherries

Improved varieties of Sand Cherries from So. Dakota Ag. College and Canadian Experiment Stations.

DAKOTA AMBER—Big bunches of delicious golden amber fruits on ornamental bushes 4 to 5 ft. tall. Especially sweet to eat fresh, and make tasty sauce, jams, jellies of beautiful color. Plant Brooks Cherry as pollinator. (See inside front cover.)

BROOKS CHERRY—A new bush cherry from Canada. Fruit is often one inch long, glossy purplish black, firm, juicy, tender, of fine quality. Makes appetizing pies, sauce, preserves. Plant with Dakota Amber to pollinate. (See inside front cover.)

HANSEN BUSH CHERRY—These little 3 to 4 ft. bush cherries have proved the most effective pollinizer for all hybrid cherries (at left). Hansen produces small deep red fruit very early. Makes fine jam. A midget sensation in bloom. Silver green foliage turns red and gold in fall. Gorgeous for hedges. Plant two to pollinate each other.



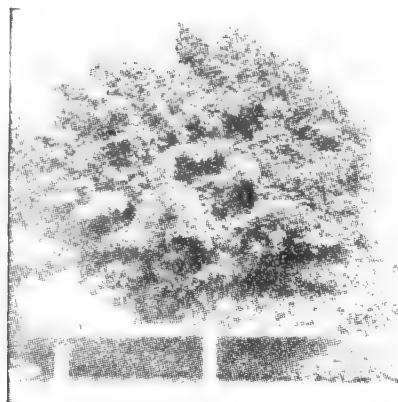
Northern Fruit Growers: See Map, Page 29 for varieties best fitted to your area.

Sapa Purple Flesh Cherries

PRICES: PLUMS & CHERRIES

		SIZES		1 to 4 EACH	5 to 9 EACH	10 or more EACH
<u>PLUMS:</u>						
Pipestone	S. Dakota 27	}	3 to 4 ft.....	\$1.50	\$1.45	\$1.40
Redcoat	Kaga		4 to 5 ft.....	1.65	1.60	1.55
Superior	Toka		5 to 6 ft.....	1.85	1.80	1.75
Minn. 101						
Mt. Royal Blue Plum.....		}	2 to 3 ft.....	1.45		
			3 to 4 ft.....	1.65		
<u>HYBRID CHERRIES:</u>						
Sapa	Sapalta	}	3 to 4 ft.....	1.50	1.45	1.40
Compass			4 to 5 ft.....	1.65	1.60	1.55
Opata			5 to 6 ft.....	1.85	1.80	1.75
<u>BUSH CHERRIES:</u>						
Hansen.....		}	18 to 24 in. (transplants) ..	.39	.34	.29
			2 to 3 ft. (transplants).....	.50	.45	.40
New Dakota Amber		}	18 to 24 in. (Budded stock) ..	1.45		
New Brooks			2 to 3 ft. (Budded stock) ..	1.65		
New Nanking.....		}	2 to 3 ft. (Budded stock)....	1.45		
			3 to 4 ft. (Budded stock)....	1.65		
New Korean.....		}	18 to 24 in. (Budded stock) ..	1.35		
			2 to 3 ft. (Budded stock)....	1.65		

Shade & Ornamental TREES



Norway
Maple

A
color-
ful
shade
tree.
6 to 8 ft.
Trees
Each
\$2.25

Linden

A Fine Shade Tree
for the Lawn

AMERICAN LINDEN (BASSWOOD)—A stately tree with broad heart-shaped leaves; fragrant white flowers in spring. A rapid grower and perfectly hardy.

Maples

Handsome Lawn
and Shade Trees

HARD OR SUGAR MAPLE—The very finest in stately beauty and permanence for lawn and boulevard. Gorgeous foliage, especially in autumn when leaves turn to clear yellow and scarlet.

SILVER OR SOFT MAPLE—A rapid grower for quick effect. Leaves appear in early spring, are bright green in color with lower side silvery.

NORWAY MAPLE—Popular for its attractive dome shaped head. Grows to large size, with deep green foliage which turns yellow in autumn.

RED SCHWEDLER MAPLE—Striking purplish-crimson leaves, turning bronze-green in midsummer. Shaped like Norway Maple—a thing of beauty in the yard!

Sensational

Flowering CRABS

IMPROVED BECHTEL'S—Completely covered in spring with double pink flowers, resembling clusters of small Roses. Makes a splendid symmetrical lawn tree.

HOPA—Blood-red buds followed by deep rose-pink flowers in spring. Fruits are red inside and out and make excellent jelly. Strong, healthy, upright tree.

RED SILVER—Red from top to bottom in leaf, blossom and fruit! Delicate silver under leaves. Reddest blooms of any crab. It's striking!

PRICES OF FLOWERING CRABS By Express, Not Prepaid

Improved Bechtel's, 2-3 ft. \$1.50, 3-4 ft. \$1.85, 4-5 ft. \$2.25.

Hopa or Red Silver, 3-4 ft. \$1.25, 4-5 ft. \$1.50, 5-6 ft. \$1.75.

Birch

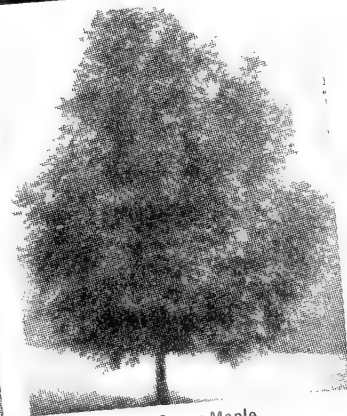
Graceful for Lawn
Specimen Planting

CUT-LEAF WEeping BIRCH—A graceful, white-barked tree of weeping habit. Tall and slender, with branches bending to the ground. Delicately-cut leaves.

WHITE BIRCH (Paper or Canoe Birch)—A handsome tree with creamy-white, paper-like bark and pendulous branches. Very effective when planted near Evergreens.



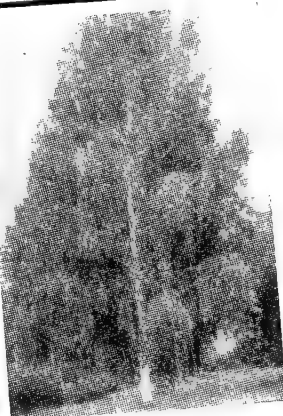
Red Schwedler Maple
6-8 ft. Trees, \$3.35 Each



Hard or Sugar Maple
6-8 ft. Trees, \$1.60 Each



Lombardy Poplar
Big 8-10 ft. Trees, \$1.25 Each



Cut Leaf Weeping Birch
5-6 ft. Trees, \$5.00 Each



Chinese Elm
6-8 ft. Trees, \$1.20 Each

Elms

Splendid for Shade on
Lawn or Boulevard

AMERICAN ELM

— Graceful, rapid in growth, with wide-spreading, pendent branches forming giant arches over streets and lawns. Tough-grained and very hardy. It is unquestionably the most popular of all shade trees.



CHINESE ELM, SIBERIAN STRAIN—The fastest growing shade, ornamental or windbreak tree. Very hardy—resistant to drought and extreme temperatures. Attains a height of 60 ft., and girth of 12 ft. or more.

Hackberry

One of Our Best
Shade Trees

HACKBERRY—A wonderful shade tree, its foliage and wide-spreading top somewhat resembles the Elm. A hardy, native, long-lived tree, comparatively free of disease—reaches a height of 75 feet. The small berry-like fruits are attractive to birds and children.

Mountain Ash

For Lawn
Specimen

MOUNTAIN ASH, EUROPEAN—Very showy lawn tree with its white flowers followed by large clusters of bright orange berries, in autumn. Beautiful dark green foliage.

PRICES ON LAWN TREES

Prices are not prepaid—Trees are shipped Express or Freight			
	5-6 ft. Each	6-8 ft. Each	8-10 ft. Each
BIRCH:			
Cut Leaf Weeping Birch.....	\$5.00	\$6.00	
White Birch.....	1.55	1.75	\$1.95
ELMS:			
American Elm.....	.85	1.15	1.65
Chinese Elm.....	.85	1.20	1.55
HACKBERRY.....			
		1.45	1.95
LINDEN (Basswood).....			
	1.95	2.75	
MAPLES:			
Hard Maple.....	1.40	1.60	
Soft Maple.....	1.25	1.45	1.65
Norway (Not Branched).....	1.75	2.25	
Schwedler (Not Branched).....	2.65	3.35	
MOUNTAIN ASH.....			
4-5 ft., \$2.25		3.00	4.00
POPLARS:			
Bolleana Poplar.....	1.85	2.35	
Lombardy Poplar.....	.75	.85	1.25
BLACK WALNUT.....			
	2.00		
NIobe WEeping WILLOW.....			
	1.00	1.45	2.50

Poplars For Background, Accent or Screening

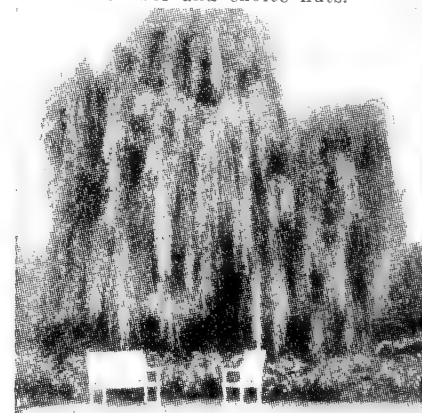
BOLLEANA POPLAR—A fast-growing, slender, columnar tree, with glossy dark green leaves, silvered underneath. Prized by landscape architects for offsetting straight or bare lines and to add character to plantings.

LOMBARDY POPLAR—Forms a tall, slim, symmetrical column, tapering to a pointed top. Ideal for landscape effect and screen planting—a rapid grower.

Walnut The Familiar Native Nut-Bearing Tree

BLACK WALNUT—Large, well shaped, majestic shade trees. Valuable for lawn planting, and for its timber and choice nuts.

The graceful
Niobe
Weeping
Willow.
Big
8-10 ft.
Trees
\$2.50
each.
Other
sizes
below.



Willow Ornamental Lawn Tree for Background Use

NIobe WEeping WILLOW—Graceful drooping form—lovely golden bark, and silver lined foliage. Very hardy.

★ ★ ★ Save Money on WINDBREAK TREES ★ ★ ★

We offer hardiest recommended varieties for the Northwest. Plant two to five rows for real effectiveness. Plant 6 feet apart in rows 8 feet apart. Cultivate first two years.

Kind and Size	50	100	500	1000
GREEN ASH				
6 to 12 in.	\$0.85	\$ 1.20	\$ 5.25	\$ 9.85
12 to 18 in.	1.75	3.35	15.35	28.85
AMERICAN ELM				
2 to 3 ft.	\$2.65	\$ 4.35	\$19.85	\$39.65
3 to 4 ft.	3.95	6.65	29.85	58.65
CHINESE ELM				
12 to 18 in.	\$2.45	\$ 3.95	\$18.35	\$35.00
18 to 24 in.	2.95	4.95	22.85	44.00
2 to 3 ft.	3.95	6.65	29.85	58.00
SOFT MAPLE				
18 to 24 in.	\$3.85	\$ 6.95	\$33.65	\$65.35
2 to 3 ft.	5.25	7.85	35.85	69.85
3 to 4 ft.	5.85	10.65	51.35	98.65
NORWAY POPLAR				
18 to 24 in.	\$6.25	\$10.35		
2 to 3 ft.	7.45	12.35		
3 to 4 ft.	9.65	15.95		
RUSSIAN OLIVE				
18 to 24 in.	\$5.45	\$ 8.85		
2 to 3 ft.	8.35	13.65		
BLACK WALNUT				
12 to 18 in.	\$5.95	\$ 9.85		
RUSSIAN GOLDEN WILLOW				
18 to 24 in.	\$3.35	\$ 5.45	\$24.95	\$48.00
2 to 3 ft.	4.45	7.35	33.65	64.00
3 to 4 ft.	5.45	8.95	39.95	78.00
LAUREL LEAF WILLOW				
18 to 24 in.	\$3.35	\$ 6.15	\$25.35	\$48.00
2 to 3 ft.	3.85	7.25	33.25	64.00

FARM ENTRANCE ROAD PLANTING SPECIAL

24 NORWAY POPLAR, 5 to 6 ft. for \$5.65

Plant 18 feet apart, on each side of entrance road from main highway to farm buildings.

Shipped
Express
Collect



Colorado Blue Spruce forms a Magnificent Windbreak, Full-Branched and Solid.

Evergreen Windbreak Bargains!

Evergreen transplants may be set out directly into the windbreak row and cultivated like rows of corn. Seedling evergreens should be set in the garden and given special care for two years before resetting into permanent windbreak. Set 6 to 8 feet apart in the row, and 12 to 15 feet apart between rows.

Kind and Size	10	25	50	100
COLORADO SPRUCE				
9 to 12 in. Transplants. Not Prepaid	\$ 7.65	\$15.35	\$28.35	\$54.85
12 to 15 in. Transplants. Not Prepaid	8.85	17.85	33.35	64.85
15 to 18 in. Transplants. Not Prepaid	10.25	22.35	42.25	82.35
BLACK HILLS SPRUCE				
9 to 12 in. Transplants. Not Prepaid	\$ 7.65	\$15.35	\$28.35	\$54.85
12 to 15 in. Transplants. Not Prepaid	8.85	17.85	33.35	64.85
15 to 18 in. Transplants. Not Prepaid	10.25	22.35	42.25	82.35
DOUGLAS FIR				
15 to 18 in. Transplants. Not Prepaid	\$ 9.85	\$23.65	\$44.35	\$82.65
18 to 24 in. Transplants. Not Prepaid	11.35	27.45	52.65	
AMERICAN ARBORVITAE				
12 to 15 in. Transplants. Not Prepaid	\$ 6.65	\$13.35	\$24.85	\$47.85
15 to 18 in. Transplants. Not Prepaid	7.95	16.35	29.85	58.35
18 to 24 in. Transplants. Not Prepaid	8.95	18.35	33.85	65.85
24 to 30 in. Transplants. Not Prepaid	9.95	19.95	37.85	73.35

★ ★ ★ HARDY HEDGES ~ The Friendly Way to Fence

NEW BLUE LEAF ARCTIC

An entirely new and different color in hedges, with fine feathery foliage of a silvery blue-green color. Blue Leaf Arctic is so hardy, that it thrives even in Canada, does well in dry or wet soil, in full sun or partial shade. Left untrimmed, it makes a most attractive, compact, dwarf hedge about 2 feet tall and 2 feet wide. Can be trimmed as desired for a neat low boundary hedge.

CHINESE HEDGEWOOD

Extremely hardy, drought resistant and a quick, compact grower. Covered with small, bright green foliage from early spring until late fall. Forms a dense screen. Can be trimmed to any height desired.

NEW RED HONEYSUCKLE (Lonicera Zabeli)

A new true red-flowering shrub with slender, graceful branches. Blooms profusely in spring, followed by decorative red berries. Very hardy, thrives in sun or partial shade, it grows about 8 feet tall and is especially useful along lot boundaries to give privacy or to screen out unattractive views. Set plants 2½ to 3 feet apart.

JAPANESE BARBERRY

Makes a neat, low boundary. Can be trimmed or grown naturally. Foliage turns to brilliant crimson in fall; branches are covered with scarlet berries.

DWARF NINEBARK

The finest shrubs we know of for a low growing hedge that's extra hardy for the North and requires a minimum of trimming. Grows 4 feet tall—can be trimmed to any desired height. The small delicate leaves are most attractive and delightfully colored in autumn. Dainty white blooms in spring followed by decorative red pods.

50 Plants Make a 50 Foot Hedge

(Set plants 1 ft. apart for thick hedge.)

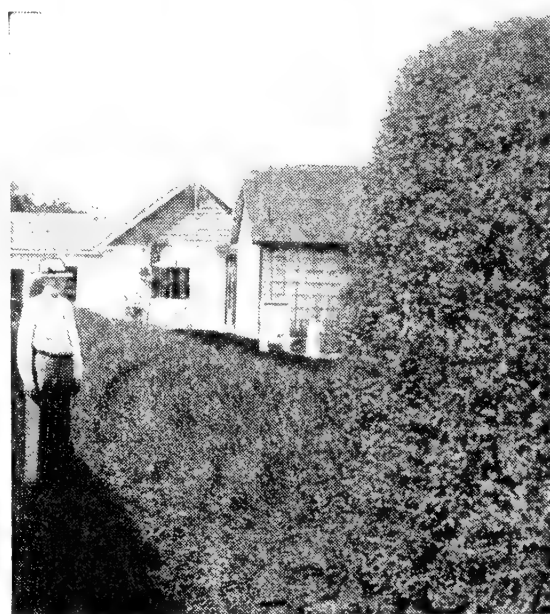
PRICES ON HEDGE PLANTS

(Shipped Express F. O. B. Faribault)

	25	50	100
BLUE LEAF ARCTIC			
12 to 18 inch	\$5.35	\$ 9.95	\$18.65
18 to 24 inch	6.65	12.65	23.85
CHINESE HEDGEWOOD			
12 to 18 inch	\$3.35	\$ 6.35	\$11.35
18 to 24 inch	3.65	6.85	12.85
RED HONEYSUCKLE			
12 to 18 inch	\$5.35	\$ 9.95	\$18.65
18 to 24 inch	6.65	12.65	23.85
JAPANESE BARBERRY			
12 to 18 inch seedlings	\$3.95	\$ 7.35	\$14.65
18 to 24 inch seedlings	6.35	11.85	22.35
DWARF NINEBARK			
12 to 18 inch	\$8.15	\$15.35	\$28.65

AMERICAN ARBORVITAE EVERGREEN HEDGE

See prices above under Evergreen Windbreak Bargains



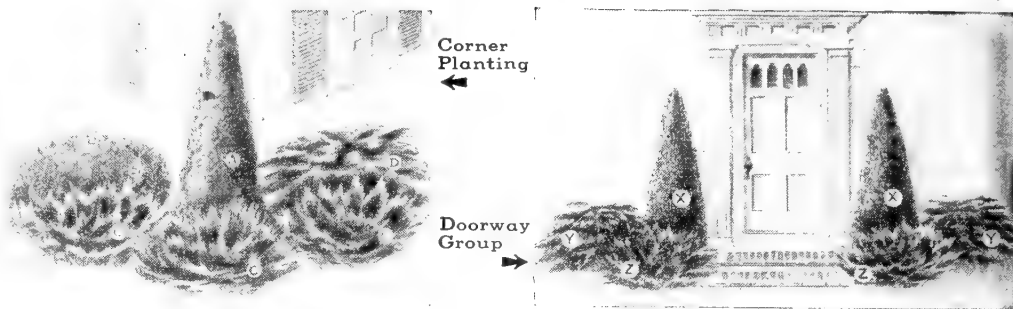
Chinese Hedgewood makes low, formal hedge or a high screen hedge. Can be trimmed to any desired height.

★ ★ ★ EVERGREENS ~ for Year 'round Beauty

EVERGREEN PRICES

IMPORTANT! Junior Size Evergreens are potted in mud, then individually wrapped in wet moss, and shipped express collect. Master Sizes are balled in earth and burlapped (B&B), and shipped freight, not prepaid.

VARIETY	JUNIOR SIZES Individual Wrap.	MASTER SIZES B & B
AMERICAN ARBORVITAE	18-24 in. \$2.50 24-30 in. 3.25	30-36 in. \$5.00 3-4 ft. 6.25
PYRAMIDAL ARBORVITAE	18-24 in. 3.50	24-30 in. 6.25 30-36 in. 8.00 3-4 ft. 10.00
SIBERIAN ARBORVITAE		15-18 in. 5.25 18-24 in. 6.50
SILVER JUNIPER	18-24 in. 2.25 24-30 in. 2.75	
PFITZER JUNIPER	12-15 in. 3.00 15-18 in. 3.75	18-24 in. 6.75 24-30 in. 7.00
SAVIN JUNIPER		15-18 in. 5.25 18-24 in. 6.25 24-30 in. 6.75
MUGHO PINE	12-15 in. 3.00 15-18 in. 3.50	18-24 in. 6.50 24-30 in. 7.00
COLORADO MEDIUM BLUE SPRUCE		18-24 in. 6.00 24-30 in. 7.50 30-36 in. 9.00 3-4 ft. 11.00
COLORADO BLUE SPRUCE SHINER		18-24 in. 8.00 24-30 in. 9.00 30-36 in. 11.50 3-4 ft. 14.00
BLACK HILLS SPRUCE		24-30 in. 8.00 30-36 in. 10.00



EVERGREENS FOR FOUNDATION PLANTING

Upright Types

AMERICAN ARBORVITAE (White Cedar) — Hardy and dependable most anywhere, but prefers a moist location and thrives best in heavy soil. Has very soft flexible foliage of a fine deep green color. Stands trimming well.

PYRAMIDAL ARBORVITAE (X) — Its fine pyramidal habit permits close planting to house or walk. Most effective in pairs when used for ornamental planting. Foliage is dark green with lighter tips.

SIBERIAN ARBORVITAE — Conical in outline, with short, stiff branches, it matures at 6 to 8 feet. Foliage much heavier than American Arborvitae, and deeply crested, symmetrical compact, and very long-lived.

SILVER JUNIPER (A) — Narrow, compact and symmetrical, with striking light silvery-blue foliage that sparkles in the sun. Attractive at all seasons. Thrives in light or sandy soils.

Low-Growing Types

PFITZER JUNIPER (D) & (Y) — Has spreading branches, handsome gray-green foliage—hardy everywhere and one of the most popular Junipers. Grows 3-4 ft. tall—thrives in shade or sunshine.

SAVIN JUNIPER (C) & (Z) — Beautiful trailing Juniper—favorite of all landscape planters. Has dark green tufted foliage, covering dense spreading branches. Extremely hardy—can be trimmed as desired.

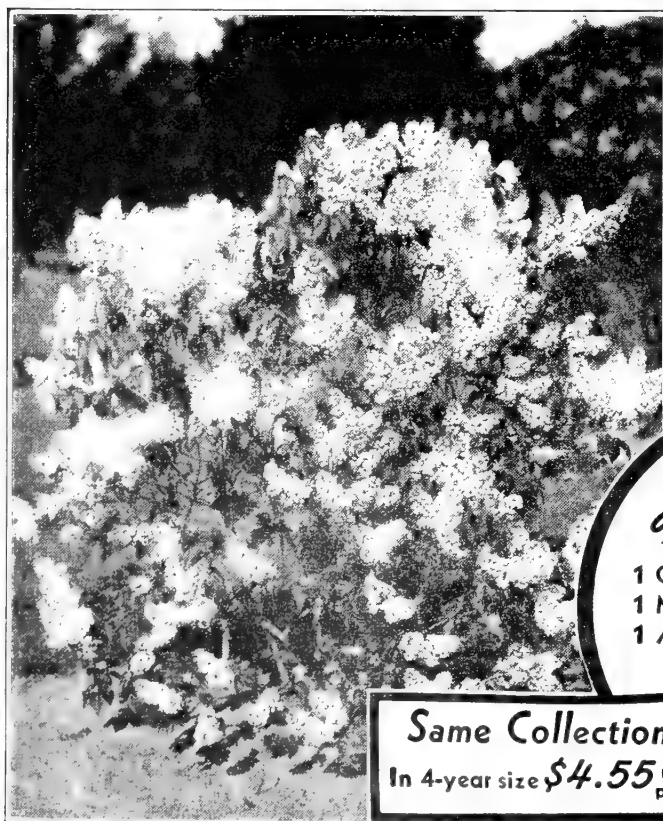
DWARF MUGHO PINE (B) — The old definition "Short and stout and round-about" fits the Mugho Pine. The growth is dense and the plants are thickly covered with heavy dark green needles. Stands shearing and can be kept as small as desired. Fairly tolerant of shade and will grow on the north side of a building quite successfully.

— SELECTED SPRUCE SPECIMENS FOR LAWN & GROUP PLANTING —

BLACK HILLS SPRUCE. The living Christmas tree! Perfectly symmetrical and compact with heavy, thick foliage of a somewhat bluish tone. Extremely hardy and very easy to establish. Popular for landscape planting—a stately evergreen for your lawn—one you can be proud of! Choice specimen trees with well developed root—several times transplanted.

COLORADO MEDIUM BLUE SPRUCE (*Picea pungens*.) Develops a broad pyramid thickly studded with branches clear to the ground, covered with heavy lustrous foliage of varying tones—sometimes deep green, again touched with silver, while others have a decided blue tinge. All grown from seed gathered from select Blue Shiners, but not guaranteed as to color.

COLORADO BLUE SHINERS (*Picea pungens glauca*). The "Extra Blue" trees—trees of magnificent form, as their thick branches climb in even layers from a broad base to a tapering crown, with heavy, lustrous foliage reflecting the most glorious silver and blue tones. Well rooted, heavy specimens, three times transplanted.



French Hybrid LILACS ★ ★ ★

French Lilacs bear larger flowers and bigger, heavier trusses of bloom than those of the common Lilac. Gorgeous in coloring, very free-flowering, delightful fragrance. Our stocks are on their own roots.

CHARLES JOLY. Double, deep wine-red. The large trusses are held erect, well above the foliage.

See Page 39 for Color Photo of French Lilacs.

MADAME LEMOINE. Double. Pure white, without a tinge of cream. Panicles large, long, erect.

PRESIDENT GREY. Double. Clear delicate light blue. Immense panicles, very symmetrical.

Price of French Lilacs { 3 Yr. Plants, \$1.25 Each, not ppd.
4 Yr. Plants, \$1.65 Each, not ppd.

Three French Lilacs

- 1 Charles Joly—Red.
- 1 Madame Lemoine—White.
- 1 Alphonse Laval—Blue.

3-year size.

\$3.45

By Exp. not ppd.

Same Collection
In 4-year size \$4.55 not ppd.

Persian Lilac

True Rothomagensis—Deep Pink

Truly beautiful planted by themselves or in foundation plantings. Makes the finest of all flowering screen hedges for the north. Presents a breath-taking sight in full bloom, in May. Eventual height, 10 ft. Bushes all grow even in height, graceful and well rounded with all blossoms on the outside. 3-yr. plants \$1.00 each, 4-yr. plants \$1.35 each, by express, not prepaid.

Villosa Lilac

This is the Pink Flowering Lilac that comes into bloom when all other Lilacs are gone. Grows ten feet high. The large broad plume-like panicles are of a delicate pink color. 3-yr. plants 75c each, 4-yr. plants 85c each, by exp. not ppd.

Hardy Everblooming

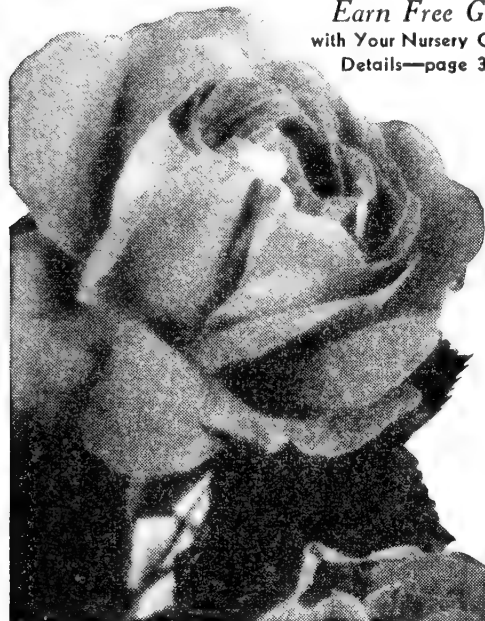


ROSES

EDITOR MC FARLAND. Hybrid Tea. Perfectly formed blooms of clear, brilliant pink, slightly suffused with yellow. Intensely fragrant. Strong stems. 2-yr. field-grown plants, each \$1.20, ppd.

E. G. HILL. Hybrid Tea. Massive, very fragrant blooms of deep velvety maroon on inside, shading to pure red when fully developed. Exceptionally fine buds. 2-yr. field-grown plants, each \$1.20, ppd.

*Earn Free Gifts
with Your Nursery Order.
Details—page 30.*



Hansa—a fragrant double wine-red Rugosa.

Climbing Roses

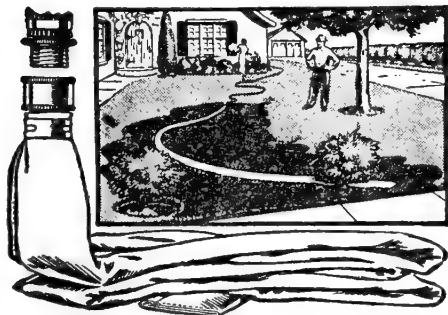
EXCELSA. The Improved "Crimson Rambler." Immense clusters of double crimson blooms. A beautiful, vigorous and dependable climber. 2-yr. field-grown plants, each 90c ppd.

DOROTHY PERKINS. Soft shell-pink flowering profusely in large clusters. Very fragrant and lasting. 2-yr. field-grown plants, each 90c, ppd.

PAUL'S SCARLET CLIMBER. Most brilliant of all roses. Color, a vivid scarlet; flowers semi-double, produced in clusters on much-branched canes. 2-yr. field-grown plants, each 95c, ppd.

Soil-Soaker Soaks Soil Thoroughly

Like all-night rain, the water seeps through the pores of the treated, mildew-resistant, self-cleaning canvas hose over its entire 18-ft. length—no spray, no wash, no waste, no wetting leaves of plants. Connect to your hose, turn on water, let it go! With "Y" connection two can be used on one hose, running between rows of plants. Fine for lawns, too.



18 ft.
Length
\$2.15
—
30 ft.
Length
\$3.30
ppd.

FRAU KARL DRUSCHKE. Hybrid Perpetual. This is the ideal hardy white rose. The snow-white, long buds are shaded pink, and open to immense, perfectly double flowers, often 4 inches across. Pure in color, perfect in form, strong grower and remarkably free flowering. 2-yr. field-grown plants, each \$1.20, ppd.

JOANNA HILL. Hybrid Tea. Beautiful long pointed buds, opening to large full fragrant flowers of clear yellow, with orange-yellow heart. Very free blooming. 2-yr. field-grown plants, each \$1.20, ppd.

TALISMAN. Hybrid Tea. Brilliant red and gold buds opening to well-shaped blooms of scarlet-orange and rich yellow. The finest of all garden roses for cutting. Constantly in bloom. The plant is strong and vigorous with healthy disease-resistant foliage. 2-yr. field-grown plants, each \$1.20, ppd.



Hardy Rugosa Roses

Rugosa Roses are particularly valuable for their ability to thrive under the most adverse conditions of soil and climate, withstanding Minnesota winters without covering. Blossom all summer. The plants may be used any place—as a boundary hedge between properties, in shrub borders or mass planting.

BELLE POITEVINE. Queen of the pinks. Clusters of double, magenta-pink roses over a long season. 2-yr. field-grown plants, each \$1.15, ppd.

F. J. GROOTENDORST. Produces full clusters of small, semi-double roses of a bright crimson. Resembles the Crimson Baby Rambler. Always in bloom. 2-yr. field-grown plants, each \$1.15, ppd.



Talisman—a brilliant orange-yellow and coppery-red combination.

HANSA. Large, double, fragrant flowers of a rich wine-red color. Handsome dark green foliage. Sturdy and free flowering. 2-yr. field-grown plants, each \$1.15, ppd.

SIR THOMAS LIPTON. Fragrant, double white blooms in clusters. Early and free flowering. 2-yr. field-grown plants, each \$1.15, ppd.

Climbing & Flowering VINES

To screen and shade porches, to cover trellises and arbors and to insure privacy. Small yards and gardens may be fenced and completely inclosed in a wall-of-green, by training hardy vines on the fence.

ENGELMAN'S IVY (Ampelopsis Engelmanni)

To Cover Brick or Stone Walls and Fences.

Clings without support to brick, stone or plaster. Hardy and a rapid grower. Dense green foliage, turning to crimson in fall. 2-yr. vines, 2 for 95c.

BITTERSWEET (Celastrus Scandens)

A Twining Vine to Cover Pergolas and Tree Stumps.

A native climber grown for its brilliant orange berries so popular for winter bouquets. Plant 2 or more in a group to insure bearing fruit. 2-yr. vines, 2 for 55c.

PURPLE CLEMATIS (Clematis Jackmani)

To Grow on Trellis or Lattice.

Widely known for its large, velvety, violet-purple flowers. Succeeds best when planted in rich soil and partial shade. 2-yr. vines, each \$1.25.

HONEYSUCKLES

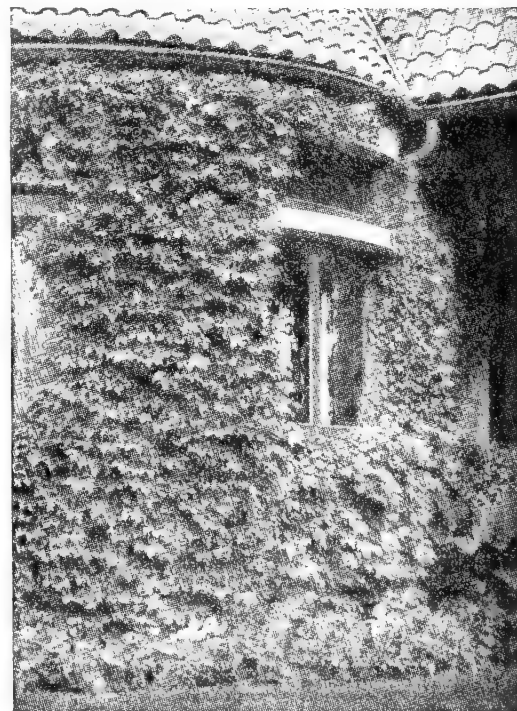
Scarlet Trumpet Honeysuckle
For Arbors, Pergolas and Trellises.

A vigorous twining vine with showy, trumpet-shaped flowers of bright scarlet. 2-yr. vines, 2 for 95c.

New Goldflame Honeysuckle
Can be Grown as a Vine or Sheared to Form a Shrub.

Bears immense clusters of fragrant, trumpet-shaped flowers—outside petals brilliant flame-pink, inside creamy golden yellow. Foliage, dark and glossy. 2-yr. plants, each 85c.

If wanted by Parcel Post add 10c for 2 Vines, and 20c for Postage on 4 Vines.



Engelman's Ivy rambles over stone, brick or plaster walls and clings tight without support. Turns crimson in fall.

Flowering & Ornamental HARDY SHRUBS

★ ★ ★ Plant dwarf shrubs (marked D.), 2 ft. apart; Medium (marked M.), 3 ft. apart; Large (marked L.), 4 ft. apart.

Flowering SHRUBS OF UNUSUAL BEAUTY

HYDRANGEA SNOWHILL

Likes →
Semi-shade

HYDRANGEA SNOWHILL (Arborescens Grandiflora). M. Bears large clusters of white snowball-like flowers all season. Bushes of spreading growth, 3½ ft. high, with large, dark green leaves. Widely used in shady areas, in house - foundation plantings, where it is pleasing throughout the summer.

3-year size \$1.15
4-year size \$1.40
Not Prepaid.

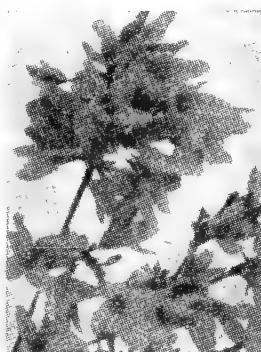


New MINNESOTA SNOWFLAKE (L) Extra-Double Mockorange (Plant Patent No. 538)

Outstanding new shrub, blooms profusely in June, with every flower fully double, glistening snow-white and delightfully sweet-scented. Exceptionally hardy, gracefully branched, with dense foliage. Strong 2 to 3 ft. plants. Each \$1.50, by express not ppd.

DOUBLE-FLOWERING MOCKORANGE (Virginal). L. Notable for its delightful fragrance and magnificent spring display. The creamy-white flowers are often 2 inches across, semi-double, and borne in such profusion that the branches are often weighted down. The plant is an erect and vigorous grower, and produces flowers intermittently throughout the growing season. 3-yr. size 85c, 4-yr. size \$1.00, not prepaid.

Lilacs
see pages
36 and 39



Weigela—Bell-shaped
Flowers of Beautiful
Rose-Red.

HYDRANGEA PEEGEE (Paniculata Grandiflora). M. Bears immense white conical bloom heads, 12 to 18 inches long, in August and September. When fully developed, flowers turn to pink and bronze and are often cut for winter house decoration. 3-yr. size \$1.10, 4-yr. size \$1.35, not prepaid.

← **WEIGELA FLORIBUNDA**. M. Free-flowering shrub of spreading habit, with beautiful rose-red flowers, similar in shape to those of a foxglove. Thrives best in moist soil, away from the roots of large trees, and requires some winter protection. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

ROSE TREE OF CHINA (Prunus Triloba). L. Dazzling, double pink rose-like flowers completely cover the long graceful branches. Blooms in early May. Use as a lawn specimen or in the shrub border. Full sun. 3-yr. size \$1.25, 4-yr. size \$1.50, not prepaid.

Tall SHRUBS FOR BACKGROUND

HONEYSUCKLE, RED BUSH (Lonicera Tartarica Rosea). L. Delicately shaped rose-pink flowers followed by bright red berries. Grows to 12 ft. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

MAYDAY TREE. L. From the Imperial Gardens of Russia. Large bush literally covered with white bloom. Flowers even before Bridal Wreath. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

RED-TWIGGED DOGWOOD. L. Bright coral-red branches make this sturdy shrub attractive in all seasons. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

TAMARIX (Lace Tree). L. Striking and unusual with feathery foliage and open clusters of small pink flowers at end of branches in June and July. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

All Shrubs Shipped Express, Not Prepaid

Dwarf SHRUBS

GREEN BARBERRY (Thunbergi). D. Its low spreading growth forms a dense bush. Scarlet and bronze in fall, studded with brilliant red berries. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

RED-LEAVED BARBERRY. D. Rich bronzed leaves that hold their color all summer. A bright contrast to other shrubs. Plant in full sun for best leaf color. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

COTONEASTER. M. A neat clean shrub with small rounded leaves, dark green and glossy. Inconspicuous pink flowers followed by black fruit. Stands shearing and will grow in shade. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

DWARF NINEBARK. D. Grows only 3½ ft. tall. The small delicate leaves are most attractive and delightfully colored in autumn. Dainty white blooms in spring are followed by decorative red pods. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

The Spireas



← **CRIMSON SPIREA** (Anthony Waterer). D. Compact, low shrub with erect stems. Rosy-crimson flowers in flat-top clusters all summer.

BRIDAL WREATH (Van Houttei). M. Graceful, arching branches completely covered with snow-white flowers in late May.

DWARF PINK SPIREA (Froebeli). D. A mass of bright rose-pink flowers from July to September.

PINK SUMMER SPIREA (Improved Billardi). M. Plume-like flowers of delicate rose-pink in July and August. Blooms when other shrubs are out of flower.

Price of all Spireas above:
3 year size, 65c 4 year size, 75c
Shipped Express, not prepaid

To "Spotlight" A SHRUB GROUP

RED-LEAVED BARBERRY. D. Rich bronze red leaves that hold their color all summer. A bright contrast to other shrubs. Plant in full sun for best leaf color. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

GOLDEN ELDER. L. A handsome, wide-spreading shrub with bright yellow leaves all season. The color is more intense when planted in a sunny spot. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

VARIEGATED DOGWOOD. L. The green leaves are striped and margined with white. Red colored bark. An unusual plant making a bright spot of color in the shrub border. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

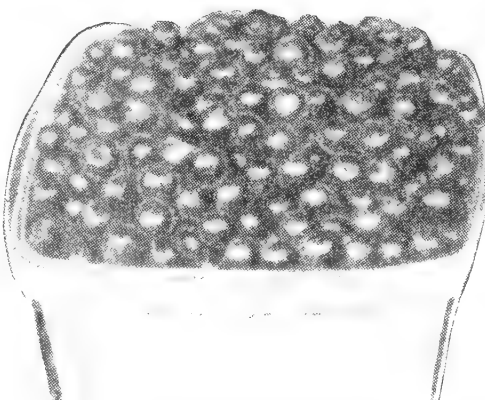
RED FLASH CISTENA. M. Most brilliant of all red-leaved shrubs. Has delicate pink blooms in spring, followed by intense rich red leaves. 3-yr. size \$1.00, 4-yr. size \$1.25, not prepaid.

All Shrubs Shipped Express, not prepaid

Handsome FRUIT-BEARING SHRUBS

← Juneberry (M)

Fruit resembles in every way the delicious Blueberry. Looks like it, tastes like it, makes luscious pies and sauce like it. BUT—you can grow Juneberry quickly and easily. No special care or soil conditioning. Super-hardy, fast-growing, thrives in any soil! Its beautiful white blossoms, its red berries which turn blue when ripe, make this plant highly ornamental as well as useful. Order at least 2 plants to insure setting of fruit. Prices at left.



Juneberries Make Luscious Pies

PRICES OF FRUIT-BEARING SHRUBS
3 YEAR, 75c 4 YEAR, 85c
Shipped Express, not prepaid

Highbush Cranberry (L)

Attractive, tall, flowering shrubs with white blossoms followed by huge clusters of bright red berries which hang on way into winter. A beautiful lawn ornament! Berries make delicious jelly that looks and tastes like that of grocery cranberries. Prices at left.

American Date Berry (L)

School boys' favorite! Novel blue-black berries resemble miniature dates. Relished by youngsters and old-timers alike—who recall them as "black haws". Small ornamental trees, ideal for lawn, bear clusters of white flowers in spring, followed by tasty, decorative date berries lasting into winter. Prices at left.

★ ★ ★



THE BEST DOUBLE FRENCH LILACS

Our stocks are on their own roots and bear larger flowers and longer heavier trusses of bloom than common lilacs. Gorgeous in color and lovely in flower, i.e., delightful fragrance. Not sucker profusely.

CHAS. JOLLY—Double, deep wine red.

MADAME LEMOINE—Double, pure white.

ALPHONSE LAVALLE—Double, lovely blue.

3 PLANTS

one of each, 3 yr. size: \$3.45

3 plants (1 of ea.) 4 yr. size:

\$4.55 by Exp. not ppd.

NIOBE WEEPING WILLOW

A most graceful weeping tree with deep, rich, golden-bark on long, slender drooping branches. Most beautiful and hardiest of willows—a splendid lawn tree.

5-6 ft. trees \$1.00 each, 6-8 ft. trees \$1.45 not ppd.



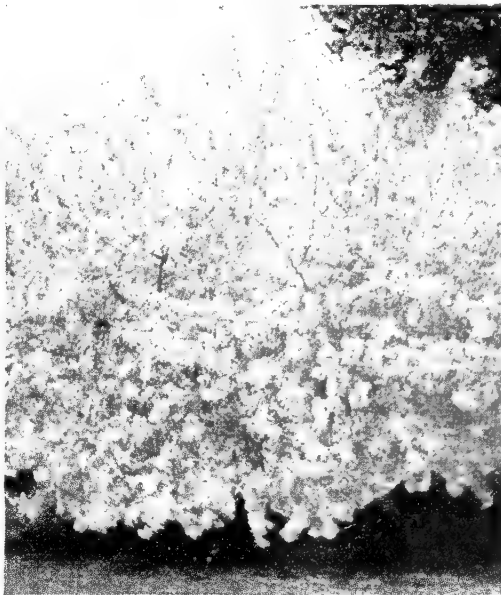
RED SILVER CRAB

A remarkable flowering crab with the most dazzling deep red bloom of all! Buds of rich deep red, followed by blossoms just as red. Even the leaves carry a dark reddish cast with undersides silver. An unusual color treat all season long!

4-5 ft. trees, \$1.65 each.

5-6 ft. trees, \$1.95 each,

by Exp. not ppd.



ROSALIA TREE

Decorational mass of bloom is truly a "traffic stopper." Fl. deep red buds followed by pure white, then, deep rose blossoms. Perfectly hardy. The Crisp apple like fruit makes fine jelly.

5 to 6 ft. trees \$1.95; 4 to 5 ft. \$1.65 by Exp. not ppd.

FREE GIFTS with Early Nursery Orders. See page 30

PAUL'S SCARLET CLIMBER

Threatfully brilliant scarlet flowers! Great clusters of 5 to 6, large, rounded petals, in great profusion. Can be cut freely, with long stems.

Strong 2 yr. plants, postpaid for 95c each.



The Friendly Way to Fence NEW BLUE LEAF ARCTIC HEDGE

50 Plants Make a 50 Foot Hedge

Now you can have the most distinctive hedge in the neighborhood, with beautiful, silvery blue-green, feathery foliage! An entirely new and different color in hedges. New Blue Leaf Arctic is so hardy it thrives even in Canada, it does well in dry or wet soil, in sun or part shade. If left untrimmed, it makes a most attractive, compact, dwarf hedge about two feet tall and two feet wide. Can be trimmed as desired for a neat, low, boundary hedge—a hedge that's really different!

BLUE LEAF ARCTIC HEDGE PLANTS—By Exp. not ppd:

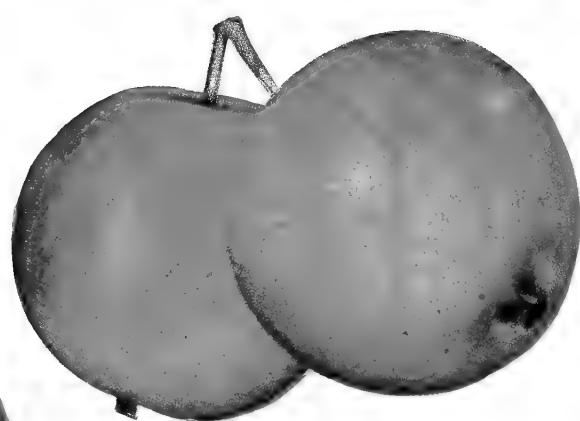
	25 Plants	50 Plants	100 Plants
12-18 inch size.....	\$5.35	\$ 9.95	\$18.65
18-24 inch size.....	6.65	12.65	23.85





Sunrise Raspberry

★ ★ ★



WHITNEY CRAB

A delightful old favorite for eating, canning, pickling. Makes fine jell. Bears heavy crops of mild, sweet-flavored fruit. Ripens early, hardy, free from blight. 5 to 6 ft. trees by Exp. not ppd. Each \$1.25.

NEW U. S. SUNRISE RASPBERRY

Bears 2 weeks before Latham! It's hardier, more disease free, longer picking season, and better quality! Big, firm, non-crumby berries are easier to pick, have tempting flavor and aroma. (Pg. 32.) 2 yr. heavy plants postpaid: 12 for \$2.00, 25 for \$3.55, 100 for \$11.75.



A



B

NEW DIETZ PRUNE

A new fruit for the Midwest introduced from Southern Russia! Hardy almost anywhere in U. S. Produces heavy crops of fruit borne all along the limbs. Fruit is especially sweet and makes delicious sauce. 4 to 5 ft. trees by Exp. not ppd. Each \$1.85.

HANSEN POLLINATOR BUSH CHERRY

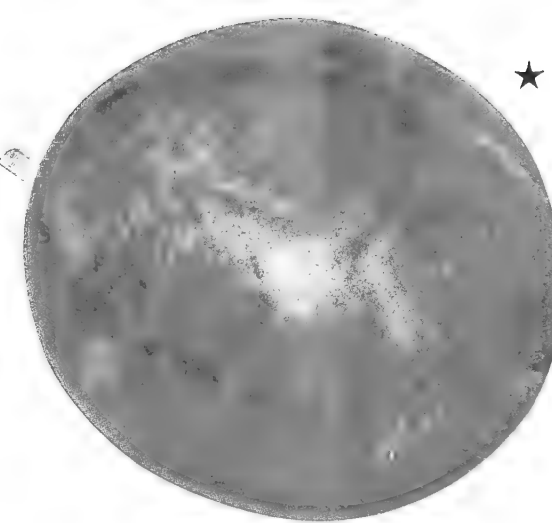
Midjet sensations of radiant bloom! Fruit makes good preserves. The most effective pollinizer for hybrid cherries such as New Sapalta, etc. Boosts the yield of cherry-plum hybrids. (Page 33.) 2 Pollinators: 2 to 3 ft. transplants \$1.00 not ppd.



FREE GIFTS with Early Nursery Orders. See page 30.

MT. ROYAL BLUE PLUM

Big European Type Blue Plums from your own yard! Hardy even in Canada. Self-fertile; a single tree bears big crops of beautiful blue freestone plums. A delightful dessert. Makes tasty jams or preserves. 2 to 3 ft. trees by Exp. not ppd. Each \$1.45.



★ ★ ★

Sodak Pear



NEW PIPESTONE PLUM

Minnesota's newest "JUMBO" Plum! Largest of all and much better than most plums now grown. Extra early - ripens first week in August. A heavy cropper, perfectly hardy, exceptional eating quality. Splendid for canning. 5 to 6 ft. trees by Exp. not ppd. Each \$1.85.

NEW SODAK PEAR

A delicious eating pear that's hardy even in Duluth! Fruit is practically seedless! Luscious, flavorful long-type pears, not large, but of superb quality with very juicy, melting white flesh. 3 to 4 ft. trees, by Exp. not ppd. Each \$1.50.

NANKING CHERRY

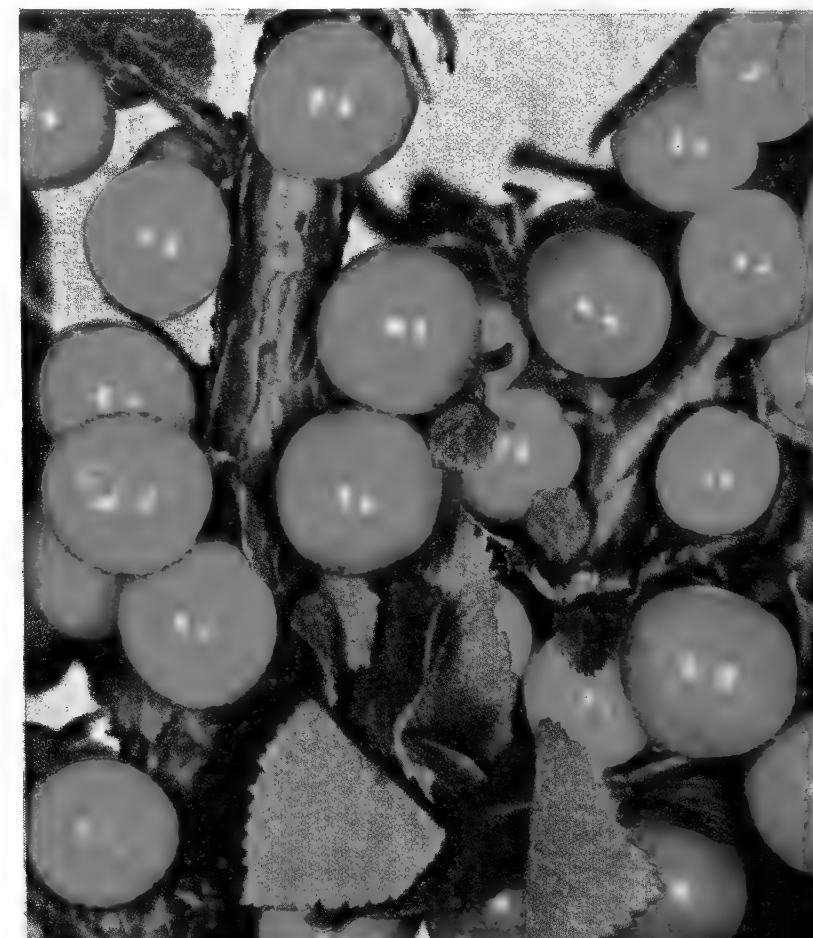
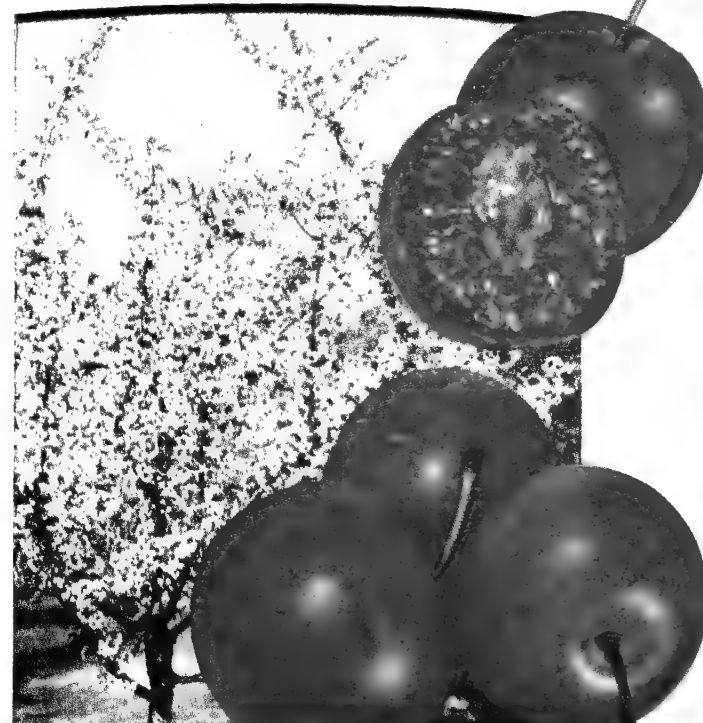
U. of Minn. selections from the hardy cherries of Northern China! Supreme beauty of bloom with loads of luscious fruit by mid-July! Bushy plants grow 7 ft. high, bloom profusely, often bear 2nd year! Delicious for eating fresh, for canning, jell or preserves. True cherry flavor. Insist on our Budded Stock,—seedlings are inferior. Plant 2 or more to insure pollination. 2 to 3 ft. plants by Exp. Each \$1.45.

NEW KOREAN CHERRY

Folks who want to grow real quality cherries on smaller plants, will be delighted with new Korean. Bushes grow 3½ feet tall, are covered with gorgeous white bloom, followed by heavy loads of delicious full-sized, bright red cherries. Often bear the 2nd year! Completely hardy. Makes superb pies, sauce and jelly. Plant 2 or more to insure pollination. 2 to 3 ft. plants, by Exp. \$1.65 Each.

NEW SAPALTA HYBRID CHERRY

A big flavorful hybrid cherry from Canada. Fruit of Sapa type, but sweeter and less cling-stone, with purple-red flesh and thin skin. Ripens early August. Delicious eaten fresh —superb for canning, pie, sauce, preserves. Often bear second year. Survives 40 below winters. Plant with Hansen Pollinator Cherry above. 5-6 ft. trees by Exp. not ppd. Each \$1.85.



All Season Assortment of 3 NEW APPLES

(A) NEW BEACON (Summer Apple)

The best early fall eating apple. Top quality, all red, ripens with Duchess, but keeps a month longer. 5 to 6 ft. trees by Exp. Each \$1.50.

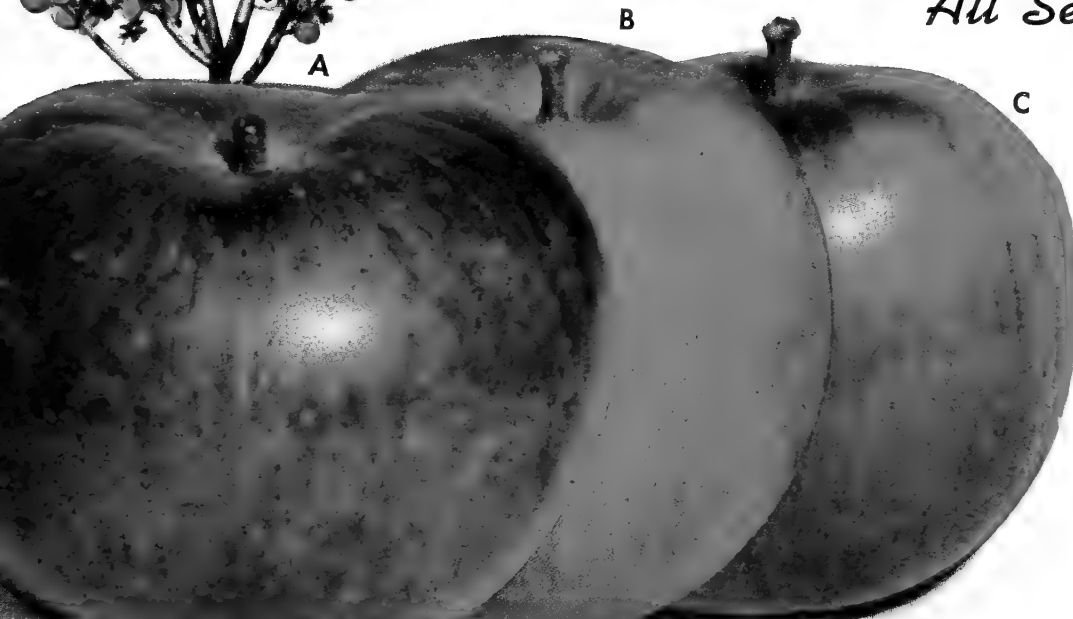
(B) MINNETONKA BEAUTY (Winter Apple)

A new extra long-keeper of exceptional dessert quality, equal to Delicious. Hardy in Central Minn. 5 to 6 ft. trees by Exp. Each \$1.95.

(C) NEW REDWELL (Fall Apple)

A new U. of Minn. Wealthy type that's hardy at Duluth. For eating or baking. Annual cropper. 5 to 6 ft. trees by Exp. Each \$1.50.

3 New All-Season APPLES (1 of each, 4-5 ft.) \$3.85



Prize Winning GLADIOLUS

Below we show popular varieties that are consistent prize winners. Some newer introductions, listed on page 43, have proved sensational, and photos do not do them justice. We especially recommend New Europe, Oregon Gold, Elizabeth the Queen, White Gold.



RARE PURPLE HEART CALLA

A striking novelty for the garden and a gorgeous potted house plant. Lovely pale creamy yellow lily blooms with an intense purple blotch in the throat! The rich deep green foliage is brilliantly splotted with silver. An exquisite flower! Easy to grow, planted like gladiolus, and in northern section bulbs should be lifted and stored like glads.

CHOICE BULBS: bloom 1st year, (with directions) 75c each, 3 for \$2.00.

SMALL BULBS: bloom 2nd year, (with full directions) 50c each, 3 for \$1.25.

SEEDS: bloom 3rd year, (with directions) Pkt. of 5 seeds 30c, 4 pkts. \$1.00.



18 BLUE RIBBON GLADS

3 each of the six varieties described at right, \$1.75 For Postpaid

1 BIT O'HEAVEN

Flaming orange with yellow throat. Opens 10-12 florets on a tall, straight plant.

3 bulbs for 35c, 6 for 65c 12 for \$1.10

2 PURPLE HEART

Velvety red-purple. The richest of all the purples. Long flower spike on slender straight stem.

3 bulbs for 40c, 6 for 75c, 12 for \$1.25

3 ROSA VAN LIMA

Cool, light pink with delicately marked white throat. Very uniform and dependable in habit.

3 bulbs for 35c, 6 for 65c, 12 for \$1.10

4 VALERIA (A New Glad)

Lovely soft scarlet, clear and distinct. Large blooms of heavy substance. Early, of strong growth, makes a fine spike.

3 bulbs for 40c, 6 for 75c, 12 for \$1.25.

5 SNOW PRINCESS

Very fine new white of good size and form. Tall, with long flower spike and perfectly placed blooms.

3 bulbs for 35c, 6 for 65c, 12 for \$1.10

6 MARGARET FULTON

Rich deep salmon-pink with remarkably clean-cut florets. One of the best for cutting.

3 bulbs for 30c, 6 for 50c, 12 for 90c

The Choicest Modern Gladiolus

Eight Aristocrats

BAGDAD. Smoky salmon-rose, with faint creamy blotches marked with pink. Opens 6 to 8 immense blooms at one time. Makes a wonderful spike for cutting and exhibition. 3 for 30c, 6 for 50c, 12 for 90c.

BLACK OPAL. Superb deep rich red. Nine to ten large round florets, perfectly spaced on fine long spike. So dark and velvety that it can be classed as maroon. 3 for 35c, 6 for 65c, 12 for \$1.10.

CORONA. Huge white, blending to light pink at edge of petals, in a distinct picotee effect. No up-to-date glad garden is complete without this exquisite but giant flower. 3 for 35c, 6 for 65c, 12 for \$1.10.

GOLD DUST. (Goldstaub.) A fine deep rich yellow. Very early, it is the first variety to bloom. Florets are well placed on a graceful spike. 3 for 35c, 6 for 65c, 12 for \$1.10.

RUFFLED BEAUTY. Unusually pure in color is this giant ruffled light yellow. Florets of heavy substance, waxy and bland. Considered by many the best yellow. 3 for 35c, 6 for 65c, 12 for \$1.10.

STOPLIGHT. A brilliant red, with a rich silken luster. Tall, handsome spikes with wide-open, ruffled blooms. One of the best new Reds, because of its heat resistance and consistently fine performance. 3 for 45c, 6 for 85c, 12 for \$1.40.

SURFSIDE. Beautifully ruffled blooms of pure satiny white, with a faint violet line in throat. Has the suede texture of Picardy. 3 for 35c, 6 for 65c, 12 for \$1.10.

VALOR. Mellow deep salmon with a rich yellow throat. Readily opens eight large florets at one time. A sensation in table bouquets and basket-work. 3 for 35c, 6 for 65c, 12 for \$1.10.

Special—One each of above Eight Aristocrats for 75c, prepaid.

"Twist-Ems" Handy Plant-Tie

Just a Simple Twist of the Wrist and Plant is Tied.

Strong, dark green tapes with wire reinforcing — the perfect plant-tie. For plants, vines, shrubs or bunching vegetables in quantity, 7-inch size only: 250 for 60c, 500 for 1.00; 1,000 for \$1.85, postpaid.



Use 5% D.D.T. TO CONTROL THRIP

See Killer Dust, Page 74.

Just Before Planting — Dust bulbs lightly with Killer Dust.

During Growing Season — Dust 3 times, beginning when plants are only 5 inches high, and making the last application just as blooms are beginning to open.

NOTE—When a heavy Thrip infestation occurs, or when bulbs are planted several years in succession in the same location, weekly dustings may be necessary during the growing season.

For Best Results—Killer Dust should be applied when the air is still, preferably in late evening or early morning, when the foliage is damp.

Before Storing Bulbs — After harvesting, cleaning and drying the bulbs in fall, dust them lightly with Killer Dust before storing for the winter.

For Sturdier Plants and Larger Blooms

Treat Your Bulbs with Semesan Just Before Planting

1. Remove the skins so that the corms are bare. (In doing this be careful not to injure the tips). Burn the skins.
2. Dissolve 1½ ounces of Semesan in one gallon of water. Cover the bulbs with this liquid and let them stand for 7 hours. Plant immediately.

Price: 2 oz. can Semesan 45c, prepaid. Full directions with each package.

Seven Exhibition Glads

ALADDIN. Brilliant scarlet-salmon with cream throat blotch. Its large round blooms are attractively waved. Exceptionally beautiful, but rarely a tall grower. 3 for 30c, 6 for 50c, 12 for 90c.

AUTUMN GOLD. One of the most richly colored Glads. Deep golden florets softly ruffled and tinged with some orange. 3 for 35c, 6 for 65c, 12 for \$1.10.

BLUE BEAUTY. Exquisite medium-blue, with edges of petals suffused rich violet-blue. Tall strong spike with wide-open blooms. 3 for 40c, 6 for 75c, 12 for \$1.25.

JEANIE. Pure pink with a golden throat. Its exquisitely clear coloring is accented by white midribs. Clean-cut and distinct. 3 for 35c, 6 for 65c, 12 for \$1.10.

LADY JANE. Rich cream, with yellow lip petals and a slight touch of ruffling. Makes a consistently fine spike. 3 for 35c, 6 for 65c, 12 for \$1.10.

LEONA. Deep rose-red, with a fine silky lustre. Tall strong spikes and large florets. Blooms midseason to late. 3 for 35c, 6 for 65c, 12 for \$1.10.

WINGS OF SONG. Soft rose-salmon with cream throat blotch and touches of blue around the edge of petals. Makes a striking bouquet. 3 for 35c, 6 for 65c, 12 for \$1.10.

Special—One each of above Seven Exhibition Glads for 65c, prepaid.

Six Giant Glads

CHIEF MULTNOMAH. Magnificent red-purple with striking red blotch in throat. Tall and vigorous, we consider this the most richly colored of all smokies. 3 for 35c, 6 for 65c, 12 for \$1.10.

DISCOVERY. Very tall heavily ruffled cream to light yellow, with a small distinctive red star in throat. Good straight spikes. 3 for 35c, 6 for 65c, 12 for \$1.10.

KING LEAR. Rich velvety purple of immense size and wonderful ruffling. Edges of petals are bordered with a silver line. Tall and fine in every way. 3 for 30c, 6 for 50c, 12 for 90c.

MARGARET BEATON. Snowy white florets, with a spark of vermilion-pink deep in throat. Six to eight well-placed blooms open on a long straight flowerhead. 3 for 35c, 6 for 65c, 12 for \$1.10.

PICARDY. Giant salmon-pink with a soft feathering of rose. Wide-open petals of heavy substance with a silvery sheen. More widely grown than any other Glad. 3 for 30c, 6 for 50c, 12 for 90c.

SUPREME COMMANDER. Most striking of all reds. Immense florets of deep scarlet-red on strong tall spikes. Extra-fine for cutting. 3 for 35c, 6 for 65c, 12 for \$1.10.

Special—One each of above Six Giant Glads for 50c, prepaid.

Two Glads Of Sensational Beauty

ELIZABETH THE QUEEN. New lavender. Exquisite coloring, wonderful substance and heavy ruffling combine to make this the most important lavender introduction in years. Tall growing and vigorous.

OREGON GOLD. Massive creamy yellow blending to deep yellow in throat. From 9 to 10 huge ruffled florets open at once on tall, graceful spikes, often 5 ft. in height.

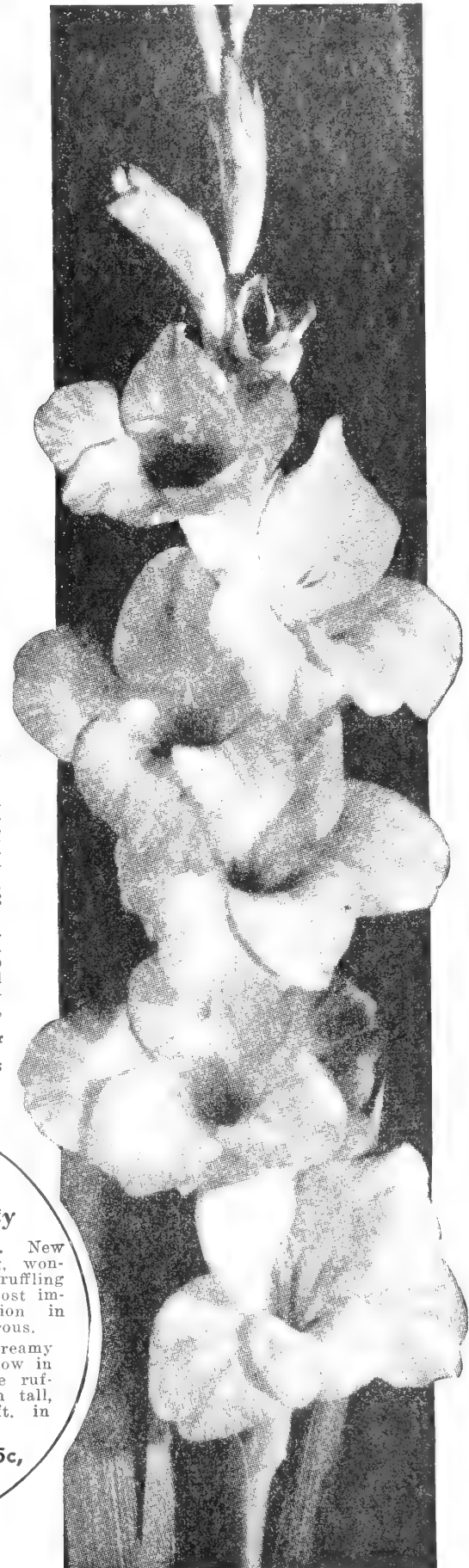
Price: 3 for 45c, 6 for 85c, 12 for \$1.40.

All Glads are Prepaid

F. S. & N. Co's

Rainbow Mixture

Choice Blooming Size Bulbs	{	25 for \$1.65	{ All ppd.
		50 for 2.90	
		100 for 4.95	



Giant Exhibition Dahlias

Key to Abbreviations:

FD (Formal Decorative),
C (Cactus), SC (Semi-Cactus).

ID (Informal Decorative),

BLUE HORIZON. (I.D.) French Violet with a decided blue cast. Long pointed petals, with absolutely tight centers. Each \$1.50.

★**CLARIAM KELTON.** (I.D.) Flame-red with a yellow reverse which shows on the face of the flowers, as the petals curl and twist. Each \$1.50.

★**COMMANDO.** (F.D.) A bright clear shade of deep lavender or true Phlox-purple. Early and prolific. Each 75c.

GEN. JOHN J. PERSHING. (S.C.) A new and pleasing color combination of coral and jasper-red with chrome flush. Each \$1.50.

★**LINK'S GORGEOUS.** (I.D.) A gorgeous blend of pink and yellow. A bright shade of scarlet pink with reverse of petals lemon-yellow. Each \$1.00.

MONTEBELLO. (I.D.) Deep full flowers of rich violet-red. A free bloomer, good keeper and fine stems. Each \$1.00.

OGDEN REID. (I.D.) Spinel-pink blend with rose-pink and striped with yellow; center deep rose. Grows to 18 inches in diameter. Each \$1.50.

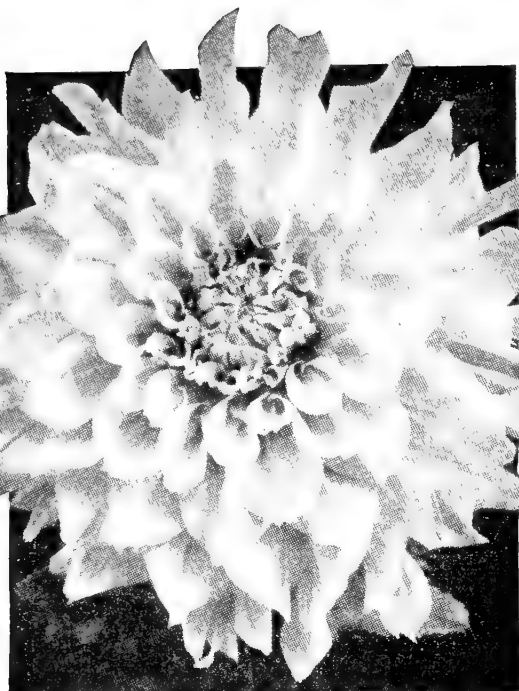
★**PINK FLAMINGO.** (Inc.C.) An exquisite shade of clear rose-pink, with gold tones at center of flower and at tips of petals. Each \$2.00.

RUFFLES. (I.D.) Beautiful shell-pink with both sides of petals daintily ruffled. Long-stemmed 10-inch blooms. Each \$1.50.

★**STELLAETTE.** (I.D.) Bright velvety red blooms, averaging 11 inches in diameter. Stems straight and strong. Each \$1.50.

★**VICTORY.** (F.D.) Golden-pink. A gorgeous flower in a new shade of pink, with many winnings to its credit. Each \$1.00.

WORLD EVENT. (I.D.) A Certified Dahlia that is on all three Honor Rolls. An exquisite bright Tyrian rose of fine size with a high center. Each \$1.00.



Victory, a beautiful golden pink

Miniature Dahlias

Easy To Grow—Require No Disbudding. The more you cut them, the better they like it.

FAIRY. (F.D.) Soft violet-rose shading to mauve at tips of petals. Very early. Each 65c.

LITTLE BING. (F.D.) Bright red with excellent stems. Each 65c.

LITTLE JENNY. (S.C.) An attractive color combination of light pink and canary-yellow. Each 65c.

SYLVIA. (F.D.) Certified. Brilliant scarlet-red. A wonderful keeper. Each 65c.

WHITE FAWN. (F.D.) Certified. Pure white of unusual beauty and form. Petals are deeply notched or lacinated. Each 65c.

Special Offer - 3 Miniatures (our choice) for only \$1.50; prepaid.

Pompon Dahlias

JOHNNY PEPPIN. Most perfect dark crimson.

MARY MUNNS. A fine pure lavender.

MORNING MIST. White, tipped and suffused rosy lavender.

SHERRY. Royal purple. Very attractive.

YELLOW GEM. Clear deep yellow.

Your choice, any of above Pompons, each 45c ppd.

Soil-Soaker

Soaks Soil Thoroughly



Like all-night rain, the water seeps through the pores of the treated, mildew-resistant, self-cleaning canvas hose—no spray, no wash, no waste, no wetting leaves of plants. Connect to your hose, turn on water, let it go! Fine for lawns, too.

18 ft. Length \$2.15

30 ft. Length \$3.30 ppd.

Special 19 Canna Roots for \$1.90, ppd.

In making a round bed, tall varieties should be selected for center of bed, and low-growing sorts for outside row. Roots should be planted 18 inches apart each way.

A round bed, 7 feet in diameter, requires 19 Cannas—one for center; six for first row; twelve for second row.

A round bed, 10 feet in diameter, requires 37 Cannas—one for center; six for first row; twelve for second row; eighteen for third row.



Surprise Collection \$3.95 ppd.

12 Giant Exhibition Dahlias, ordinarily selling from \$1.00 to \$1.50, each—all different—not labeled). A real value.

All Dahlias are Prepaid

Grow Cannas

We have become so accustomed to seeing Cannas in formal beds in parks that we feel they have no place in smaller plantings. However, the stately plants with their brilliant clusters of flowers hold their own when interplanted with shrubs or in bare spots in the perennial border. Try placing them in groups of three and let them highlight your garden this summer.

HUNGARIA. 3½ ft. The best pink canna. Leaves bluish-green, never burn. Trusses are compact and of enormous size.

KING HUMBERT. 4 ft. Large trusses of orange-scarlet flowers. Foliage is bronze, very broad and handsome. A "Gold Medal" canna.

ORANGE BEDDER. 4 ft. Bright orange with a scarlet suffusion. Green foliage. Very showy.

THE PRESIDENT. 4½ ft. Rich glowing scarlet flowers, 7 inches across, on strong, erect stalks. The foliage is green.

WYOMING. 5 ft. Immense spikes of glowing orange flowers with recurved petals. Bronze foliage. Rich and showy.

YELLOW KING HUMBERT. 4 ft. Flowers a deep rich yellow, softly spotted and blotched with bright red. Foliage very dark green.

Price, any of the above dormant roots, 3 for 45c, 6 for 80c, 12 for \$1.45, 25 for \$2.75, prepaid.



Miscellaneous Spring BULBS



These Bulbs are Not Hardy and must be lifted in fall after the tops have been killed by frost, and stored in a cool, frost-proof cellar.

Tuberose Cherished for their rich exotic fragrance.

Pure white wax-like double flowers, closely set on 18-in. spikes. Wonderful in the garden and highly prized for cutting. The flowers have a rich exotic fragrance which is most penetrating in the evening air and perfumes the entire garden. Tuberose should be planted in groups of 3 or 5, among other garden flowers. 3 for 70c, 6 for \$1.25, 12 for \$2.00, prepaid.

Calla Lilies

Plant them in groups in the foreground of your shrub border or in your perennial garden. You will enjoy the beautiful trumpet-shaped flowers as well as the mottled low-growing foliage.

WHITE CALLA (Alba Maculata). Glistening pure white flowers on 18-inch stems. Each 40c, 3 for \$1.00, 6 for \$1.95, prepaid.

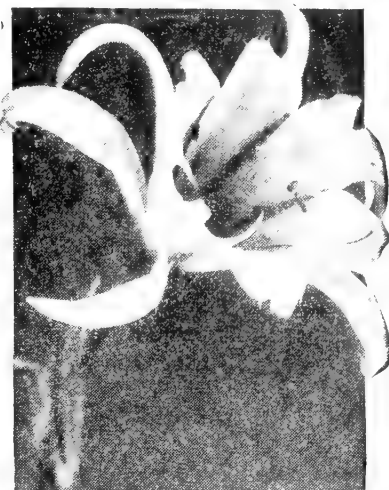
GOLDEN CALLA (El-liottiana). Magnificent golden-yellow flowers. Average height 18 inches. Each 50c, 3 for \$1.30, 6 for \$2.50, prepaid.

PINK CALLA (Reh-manni). A dainty pink form, 12-15 inches high. Each 75c, 3 for \$1.90, 6 for \$3.50, prepaid.

For New
Purple Heart
Calla, See
Color Photo and
Description on
Page 42.



Grow Callas for indoor pot plants or outdoor garden blooms.



Ismene Pure White Blooms Exquisitely Fragrant

Large, snowy white flowers, borne in clusters on tall stems, are produced 6 weeks after planting the bulbs. Delightfully fragrant and easy to grow. The sturdy 2-foot plants with their long shining amaryllis-like leaves of rich dark green, are attractive garden subjects throughout the summer months. Ismene is an excellent plant for indoor growing, and the bulbs may be potted in February for indoor blooming. Price, each 45c, 3 for \$1.25, 6 for \$2.40, 12 for \$4.50, prepaid.

Packet Book of Flower Gardening

By Montague Free

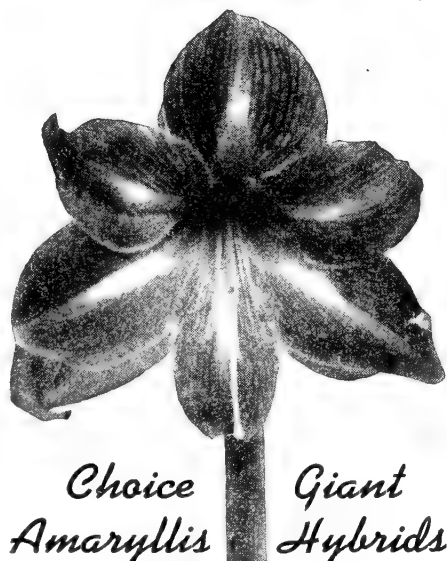
Gives detailed and specific instructions on the growing and care of Annual and Perennial Flowers, Flowering Bulbs, Rose Gardens, Water Gardens, Rock Gardens and House Plants. Makes a fine gift.

484 Pages 30c ppd.
98 Illustrations

Summer Hyacinths

Tall Candelabra-like Spikes.
Splendid for Back-ground Groups.

A luxuriant-growing, summer-flowering plant, spreading 2 to 3 ft. and throwing spikes 4 to 5 ft. in height. The plants have broad basal strap-shaped leaves, and in mid-summer send up 3 to 5-foot spikes, each spike bearing from 20 to 30 bell-shaped white flowers, slightly fragrant. Exquisite as cut flowers, arranged in bouquets with gladiolus. Of easiest possible culture, this stately summer-flowering bulb has won many admirers. 3 for 40c, 6 for 70c, 12 for \$1.35, prepaid.



Choice Giant
Amaryllis Hybrids

Most Gorgeous of All House Plants.

This is the finest race of Amaryllis in cultivation. The flowers are superbly shaped and of mammoth size, ranging in color from pure white grounds with varied markings of rose and crimson, to the richest self colors, as scarlet, orange-red and crimson.

Giant Hybrids, Mixed Colors Only
Each 75c, 3 for \$2.10 ppd.

Hardy Garden Lilies

Ask for Free Leaflet
on Culture of Hardy Lilies

CANADENSE FLAVUM LILY. Height 3-5 ft. Broad funnel-shaped drooping flowers of golden-yellow, handsomely spotted inside. A graceful lily, splendid for naturalizing among perennials or low-growing shrubbery. Blooms in July. Each, 40c, 3 for \$1.00, prepaid.

CANDLESTICK LILY (Umbellatum) Height 2-3 ft. A showy, sun-loving variety that is easily grown. The large, orange-red flowers are held erect like widespread chalices, and are borne in great profusion in June. Each 50c, 3 for \$1.25, prepaid.

DOUBLE TIGER LILY Height 5 ft. Handsome, showy lilies of easy culture, producing an abundance of orange-scarlet flowers in August. Very hardy. Each 50c, 3 for \$1.25, prepaid.

Regal Lilies

Height 3-5 ft. The easiest of all lilies to grow, and the most beautiful of all the true trumpet-shaped varieties. The large flowers are ivory-white, shaded rose, with centers flushed yellow. The stems are sturdy and bear clusters of 2-8 fragrant flowers in June. Each 30c, 3 for 75c, prepaid.



Withstand Minnesota Winters
and Sub-Zero Temperatures.

Sensational New HARDY MUMS

We cannot accept plant orders for less than \$1.00. All Mums mailed postpaid.



Mrs. Pierre Dupont, salmon-pink

New Bokhara

Richly beautiful is the blending of soft rosy crimson and wine shades in this new Mum. Fully double, perfectly formed flowers on stiff, well-branched stems. Early Oct.

Each 60c

3 Beautiful Pompons

September-Flowering

HARBOR LIGHTS. 2 ft. A new pompon, of pale yellow with creamy-white tints, blended to create a luminous effect. Mid-Sept. Each 50c.

LAVENDER LASSIE. Beautiful pompon, with double 2-inch blooms of pure lavender on dense, spreading plants, 3 ft. across. Early Sept. Each 60c.

SEPTEMBER BRONZE. Showy golden-bronze, changing to vivid bronze. Cushion-type plant, amazingly free-flowering. Each 50c.

HERE ARE . . . The Grand Champion 'Mums

For twelve years Dr. Kraus has been growing Hardy Chrysanthemums from scientifically selected seeds. They have been tested for winter hardiness, color and form of flower, petal substance, early-blooming qualities, disease resistance and ornamental foliage.

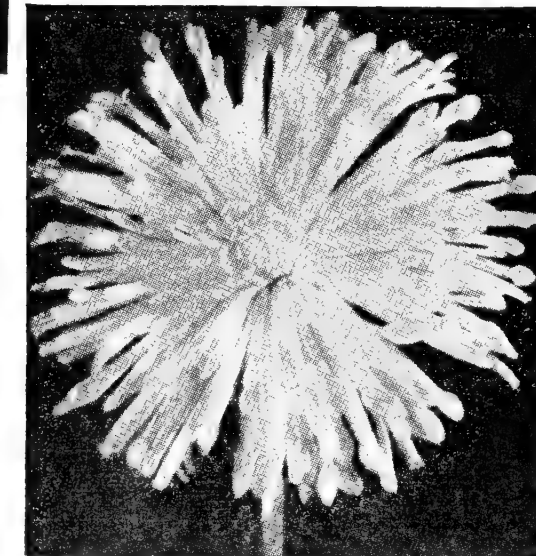
BARBARA SMALL. 2 ft. Lovely, clear lilac-pink, slightly lighter at the margins, with a carmine center. Mid-September on. Each 50c.

CANDLELIGHT. 2 ft. Well-formed, double flowers of creamy ivory-white. Comes into bloom in late August. Each 50c.

CHARLES NYE. 2 ft. Large 3-inch fully double rounded flowers of rich buttercup-yellow. Late September. Each 60c.

CHIQUITA. 2 ft. Deep lemon-yellow, dome-shaped pompon. Flowers in clusters of 6 to 8. Late September on. Each 60c.

DRIFTED SNOW. 2 ft. A mound of large double white flowers shaded yellow at center. Blooms from mid-September on. Each 50c.



Spoon Mums Delightfully Different

ORCHID SPOON. 2 ft. Lovely clear orchid-pink. The petals which are tubular near the center of the flower, flatten out at the end, resembling miniature spoons. Each 50c.

HEARTHFIRE. 2 ft. Bright red flowers, showing a small yellow center when fully open. Ideal for cutting. Mid-Sept. on. Each 60c.

NANOOK. 1½ ft. Dwarf compact mound, completely covered with shapely, double white flowers with cream center. Mid-September. Each 50c.

SIENNA. 2 ft. Dark reddish-orange toned burnt-sienna-brown. A heavy-textured, long-lasting flower. Mid-Sept. Each 60c.

SNOWFALL. 2 ft. White, with slight cream shading at center. Double flowers, 1½ inches across. Late September. Each 60c.

TANGERINE. 3 ft. Spanish-orange to grenadine-red. Fully double flowers, 3 inches across, with long overlapping slightly twisted petals, giving a fluffy appearance. Late September. Each 60c.

The Master Five

AVIATOR. 2 ft. Sensational new coppery-red, which promises to become very popular. Fully double. In bloom by October 2nd. Each 50c.

BONFIRE. 2 ft. Fire-red two-inch flowers, each stem carrying as many as six to eight blooms at one time. Erect-growing plant, blooms in early October. Each 50c.

BURGUNDY. 2½ ft. Great double flowers of perfect form and depth, in that rarest of colors—glowing wine-red. A long-stemmed, branching plant. Late September. Each 50c.

MRS. PIERRE S. DUPONT. 2 ft. A glorious blend of rosy salmon, peach-pink and fawn. A model of perfection in form and color. Each 50c.

RED VELVET. 2 ft. An unfading velvety crimson of surpassing beauty. Shapely double flowers on graceful, erect stems. Late September. Each 50c.

Special—One each of above Master Five Mums for \$2.10, prepaid.

6 Early-Cutting 'Mums

AUTUMN SUNLIGHT. 2 ft. Very early. A pure golden yellow Mum, wonderful for cutting. In full flower by September 1st. Each 50c.

EUGENE A. WANDER. 1½ ft. Huge, sparkling, golden yellow double flowers, perfect in form, completely cover the plant in late August. Each 50c.

MY LADY. 1½ ft. A rich golden color, shaded with bronze-red. Double flowers produced in profusion from late August on. Each 40c.

SEPTEMBER DAWN. 2 ft. Large, double bright rose-pink. The best of the so-called pinks to date. Each 50c.

VIOLET. 2 ft. Newest purple. Full double dahlia-like blooms of good color and substance. Late August. Each 50c.

YELLOW AVALANCHE. 2 ft. Fluffy, soft, golden-yellow Mums, 4 inches across. In bloom by early September. Each 60c.

BRILLIANT SINGLES

Like Giant Daisies

ECHOES. 2 ft. A richly colored semi-double or coppery bronze, becoming orange at center. In bloom by October 1st. Each 60c.

PRIMULA. 3 ft. Bushy spreading plants covered with clear primrose-yellow single flowers in early October. Each 50c.

VALIANT. 2 ft. Semi-double bright rose-scarlet, 3 to 4 inches in diameter. Petals long with inner rows incurved over bright golden center. Late September. Each 60c.

One each of above Brilliant Singles for \$1.50, prepaid.



Echoes, coppery bronze, orange center

Plant PEONIES for a Lifetime of Bloom

We supply strong, healthy roots—3 to 5-eye divisions. Our leaflet on Peony Culture tells how deep they should be planted to give best results. Ask for it.

Peonies should be planted where they will receive full sunlight—away from trees and large shrubs.

Finest Late Rose-Pink

GEORGIANA SHAYLOR. A very large light rose-pink with a delicate fragrance. The petals are large and broad, with guard and center petals slightly splashed with crimson. A choice cut flower. Late midseason, medium tall grower of sturdy habit. Exceptionally free-blooming. Each \$1.50, ppd.

BEN FRANKLIN. A beautiful velvety dark red peony. The flowers are of great size, with long, broad petals of good substance. The plant is very tall with heavy dark foliage, and is a profuse bloomer. A fine landscape variety and a wonderful cut flower. Midseason. Each \$1.10, prepaid.

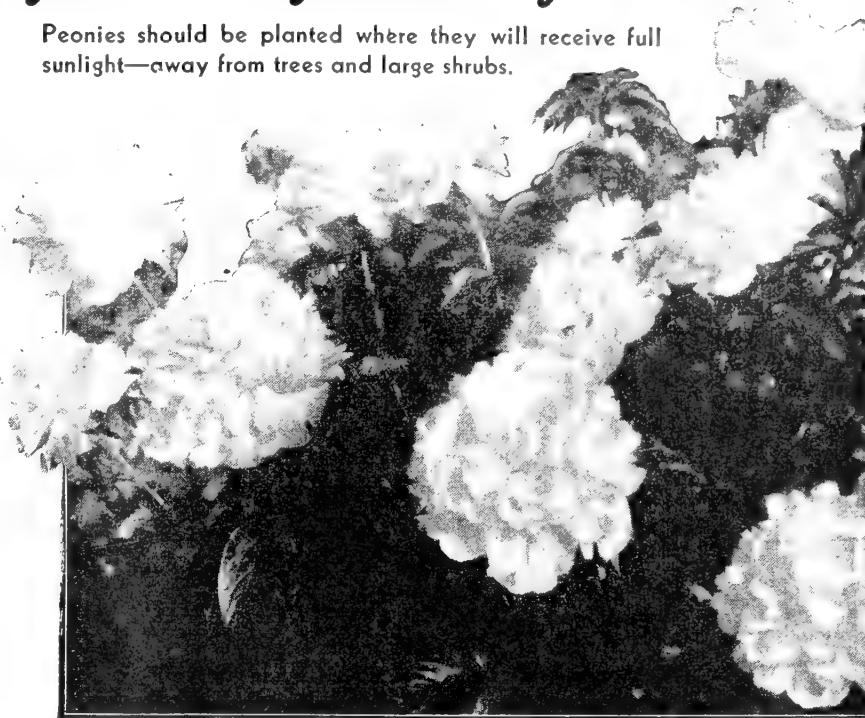
FELIX CROUSSE. Brilliant rose-red of even tone and silky lustre. Shows no stamens. The flower consists of a central bomb of narrow incurved petals, surrounded by broad prominent guard petals. Late midseason. Each \$1.10, prepaid.

FLORENCE NIGHTINGALE. Pure white, with an occasional tracing of red. The flowers are of the rose type, with large, round petals, and have a pleasing fragrance. If you wish to extend your peony blooming season over the longest period of time, you should have Florence Nightingale, as it is one of the latest whites. Each \$1.25, prepaid.

KARL ROSENFELD. A brilliant and striking variety, coming into bloom early midseason. Flowers are very large, of semi-rose type and slightly fragrant. Tall and free-flowering. As an early red it has no equal. Each \$1.10, prepaid.

MME. DE VERNEVILLE. A fragrant white Peony, with center petals flecked crimson. Large perfectly formed flower, on long, strong stems. Freely produced, should be in every collection. Early midseason. Each \$1.10, prepaid.

WALTER FAXON. Vivid shell-pink, excelling all other Pinks in brilliance. Large double flowers, with a pleasing fragrance. Midseason. To develop perfect flowers of Walter Faxon, cut just before buds open, keep in water in a cool, dark room for a day or two and the flowers will be exquisitely beautiful with a wonderful luminous coloring. Each \$1.35, prepaid.



Choice Collection

Three Famous Faribault Peonies \$3.00

Our Selection of Named Varieties, all different.

ppd.

Choice Recleaned
Grasses of Highest
Purity & Germination

Quality LAWN SEED

Approved, Time-Tested
Formulas. Use 125
pounds per acre.

HOW MUCH SEED TO USE

Size of Plot	Square Feet	Quantity of Seed
10 x 20	200	1 lb.
20 x 50	1,000	5 lbs.
20 x 100	2,000	10 lbs.
50 x 100	5,000	25 lbs.
200 x 200	40,000	100 to 125 lbs.
(One Acre)		125 lbs.

For renovating an old lawn use half of above quantities.

CREeping BENT GRASS

Makes fine, dense turf. Ideal for terraces and putting greens. Makes compact sod, due to its spreading habit—eventually crowding out other grasses. Price: 1 lb. \$1.50, 5 lbs. \$7.25, prepaid. Not prepaid, 25 lbs. \$31.25.

\$1.50 LB PPD

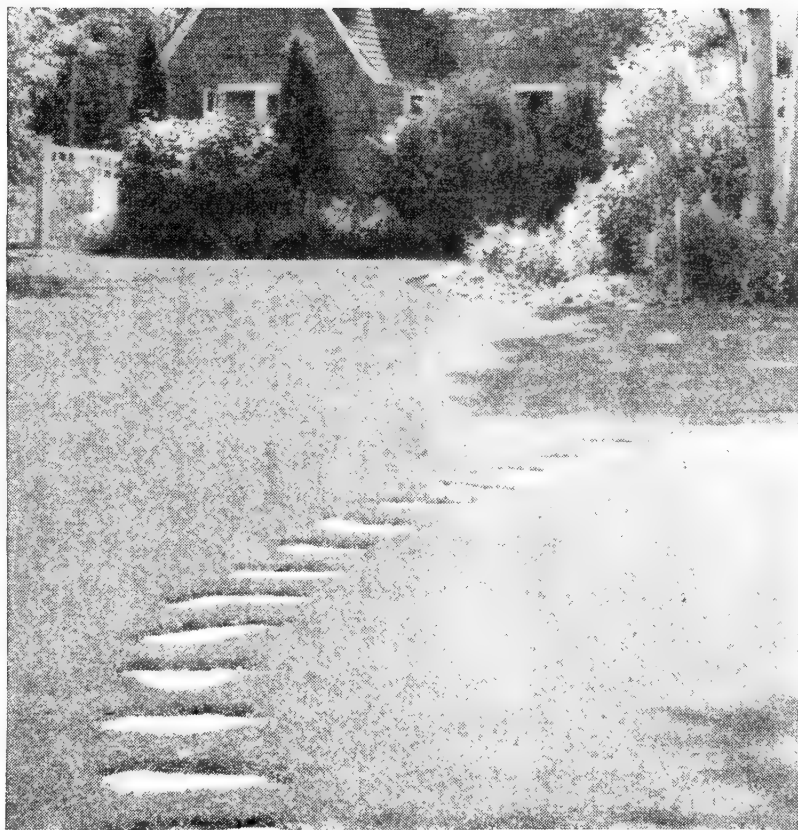
WHITE LAWN CLOVER

Makes a close, compact growth—covering the ground like a carpet. Grows quickly, producing small white flowers, thrives in sandy soil where other grasses fail. Price: 1/2 lb. 60c, 1 lb. \$1.00, 5 lbs. \$4.75, prepaid.

\$1.00 LB PPD

FREE LAWN BOOKLET

Tells how to build and maintain a new lawn—rejuvenate old or worn-out lawn—how to establish a Bent Lawn—also lawn care and treatment. It's free with your order—ask for it.



Lawns
2 weeks
earlier!

With ROOTONE WONDER POWDER

Faster germination—deeper roots—healthier seedlings and luxurious lawns result from dusting grass seed with Hormone Powder. Inexpensive and simple to use. Pkt. to treat up to 2 to 3 lbs. of seed, 25c—2 oz. to treat 20 lbs. lawn seed, \$1.00, 1b. \$5.00, ppd.

30 DAY MIXTURE

A mixture of finest quick growing and permanent grasses—will establish a luxurious lawn in 30 to 40 days under normal conditions. Contains Kentucky Blue Grass—White Dutch Clover Rye Grass and Red Top. Price: 1 lb. 55c, 5 lbs. \$2.50, prepaid. Not prepaid, 25 lbs. \$11.25.

55c LB PPD

GARDEN CITY MIXTURE

Popular quality mixture for general use. Contains choicest grasses, roots deeply and withstands severe drought. Consists of 50% Kentucky Blue Grass—balance, Red Top, Chew-ing's Fescue, Rye Grass, and White Clover. Price: 1 lb. 65c, 5 lbs. \$3.00, prepaid. Not prepaid, 25 lbs. \$12.75, 100 lbs. \$50.00.

65c LB PPD

SHADY NOOK MIXTURE

Hardy grasses that thrive in shady places—ideal for patching up lawns, filling in barren places under trees, and on north side of house. Price: 1 lb. 85c, 5 lbs. \$4.00, prepaid. Not prepaid, 25 lbs. \$17.50.

85c LB PPD

Use a SOIL-SOAKER To Water Your Lawn

No loss of water through evaporation—no waste on walks and driveways. The soil is soaked deeply and thoroughly on all sides of Soil-Soaker. Far more beneficial than light surface sprinkling. Puts the moisture down into the soil, exactly where you want it. Price: 18-ft. length, \$2.15, ppd.

For other sizes see page 72.

Feed your lawn regularly with Sacco Fertilizer. See page 73 for prices.

FLOWER SEEDS

The World's Finest

All Flower Seeds are sent Postpaid in U. S. A. Please Order by Name and by Number



Radiance—the new two-color Sensation Cosmos is deep rose with a rich crimson center.

All-America Winner for 1948

Cosmos Sensation "Radiance"

No. A-1314 RADIANCE. 4-ft. The highest medal-winner in the All-America Selections for 1948, and the first bi-color Cosmos ever to be developed. Giant in size, the flowers are a soft deep rose, attractively zoned rich crimson at base of petals. Its great size, striking color and long strong stems make it one of the finest flowers for cutting and for garden display..Pkt. 25c

For other Cosmos see page 51



The somewhat formal plants of Balsam make excellent low-growing hedges.

New Ageratums in Pink and Blue

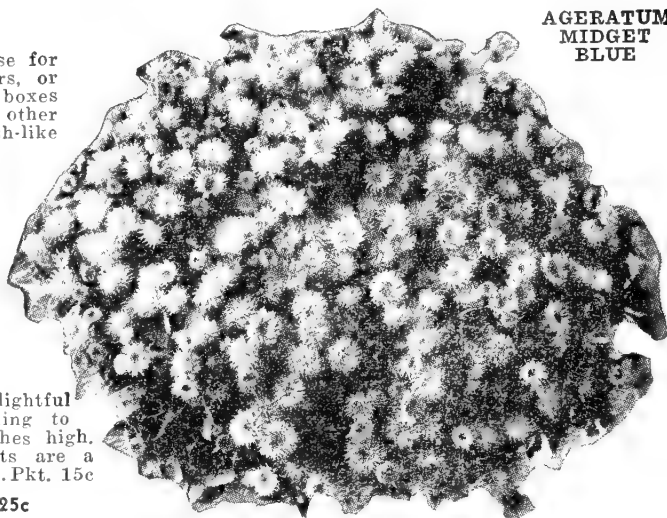
Floss Flower (Annual)

Ageratums are excellent to use for edging walks and flower borders, or they may be used in window boxes and pots in combination with other flowering plants. The soft plush-like little flowers form compact clusters which cover the entire plant. In bloom all summer.

1026 MIDGET BLUE. 4 in. Dwarf and compact, with rich azure-blue flowers. Plants are very uniform in habit and true in color. The best Ageratum for narrow ribbon planting and edging....Pkt. 15c

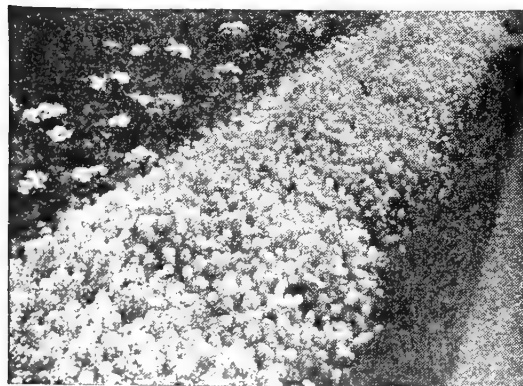
1028 FAIRY PINK. 5 in. A delightful rose-pink variety, beginning to flower when only 1½ inches high. The dwarf, compact plants are a mass of bloom all summer..Pkt. 15c

One packet each of above for 25c



AGERATUM MIDGET BLUE

Sweet Alyssum—the Ideal Edging



ALYSSUM "SNOWCAP" commences to bloom when only one inch high and continues until frost.

1031 VIOLET QUEEN. 4 in. A bright, deep violet that does not fade in hot weather. Blooms luxuriantly from early summer to frost.....Pkt. 15c

1032 SNOWCAP. The dwarfest and most compact variety. Plants form a dense cluster of snow-white flowers, with the objectionable green center entirely eliminated.....Pkt. 15c

1033 LILAC QUEEN. 6 in. Delicate lavender flowers. A pleasing contrast with the white variety... ½ oz. 40c, pkt. 10c

ALYSSUM, Madwort (Perennial)

1034 SAXATILE COMPACTUM. "Basket of Gold." 9 in. A mass of golden yellow blooms in early spring when other flowers are scarce. Very effective as a border for tulips. The foliage is silver-gray.....Pkt. 15c

Achillea (Perennial)

1020 THE PEARL. 2 ft. Produces large clusters of double pure white flowers from spring until frost. Splendid for cutting..Pkt. 10c

ANTIRRHINUM, see Snapdragon, page 57.

AQUILEGIA, see Columbine, page 51.

Aubrietia Purple Rock Cress (Perennial)

1045 LARGE FLOWERING HYBRIDS MIXED. 6 in. One of the most beautiful of all dwarf creeping plants. Forms a dense mat of foliage, which in early spring is a sheet of brilliant bloom. Colors include lavender, mauve, purple and violet. Excellent for planting between flagstones, in rock wall crevices, or as a border....Pkt. 25c

1046 BABY'S BREATH, see Gypsophila, page 53.

1047 BACHELOR'S BUTTON, see Centaurea.

Balsam Touch-Me-Not (Annual)

1205 DOUBLE MIXED. Height 18-24 in. Sturdy bushy plants with large double flowers clustered in the axils of the leaves. Often called "Touch-Me-Not" because the ripe seed pods snap open when touched, scattering the seed in all directions. Colors: red, rose, pink and white. Prefer rich soil and sunny position.....Pkt. 10c

Baptisia False Indigo (Perennial)

1206 AUSTRALIS. 3 ft. Strong-growing, bushy plants with handsome dark green cut foliage and spikes of deep blue, lupine-like flowers in June and July. A splendid background plant. Remains attractive even when not in bloom.....Pkt. 10c

For a beautiful Permanent Edging, plant Aubrietia with Perennial Candytuft—they come into bloom at the same time, and the color combination is delightful.

Wilt Resistant Asters

A special strain bred to resist Fusarium Wilt and much more vigorous and productive than the ordinary strains. The different types which we offer, vary in form and blooming season. By starting seed of various types, you are assured of brilliant garden display and flowers for cutting from mid-summer to frost.



Early Beauty

(Early Midseason Wilt Resistant)

This beautiful strain is rapidly superseding American Branching for general use. Plants are of the non-lateral branching type, grow 2-3 ft. tall, and produce enormous flowers on long, strong stems. Superb for cutting.

- 1100 Crimson.
1101 September Beauty, flesh pink.
1102 Azure Fairy, clear lavender-blue.

Any of the above, pkt. 15c.
3 Pkts. for 40c

Early Dawn

(Earliest of All)

A new class that is very early, beginning to flower in mid-July. Large, well-formed blooms about 4 inches across, borne on strong stems. Plants grow 16 to 18 inches tall. An excellent cutting variety.

- 1110 Finest Mixed..... 1/8 oz. 40c; pkt. 15c

Early Royal

(Early Midseason, Wilt Resistant)

These come into bloom in mid-August. The flowers are large and very double, with broad incurved petals; stems are long and upright, branching from the base of the plants. Height of plants, 2 feet.

- 1125 Royal Rose 1127 Royal Lavender
1128 Royal Purple

Any of above, pkt. 15c.

- 1130 Royal Mixed..... 1/8 oz. 40c; pkt. 15c

Giant Mammoth Peony Flowered

(Midseason) Height 2 1/2-3 ft.

A super strain with immense double flowers of perfect form, borne on long stout stems characteristic of the true peony flowered type. Wonderful for cut flowers and a splendid keeper.

- 1140 Finest Mixed..... 1/8 oz. 40c; pkt. 15c

Special Aster Offer

Long Season Collection

- | | |
|--|-------|
| 1 Pkt. Early Dawn..... | } 30c |
| 1 Pkt. Early Royal Mixed.... | |
| 1 Pkt. Giant Single South-
cote Beauty..... | |

New Crested or Princess Asters

(Early Wilt Resistant)

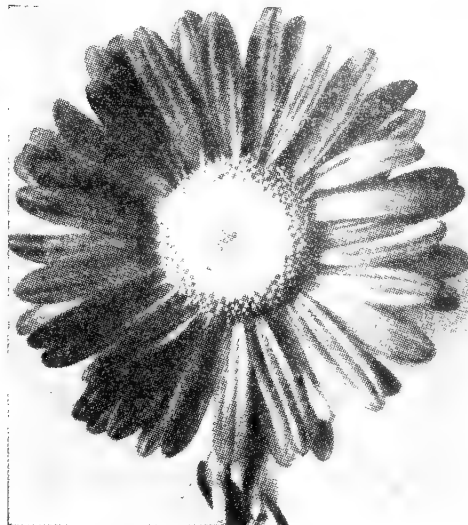
Height 2 ft.

Princess Asters have full, double crested centers of bright gold, surrounded by several rows of broad guard petals. Colors include lovely shades of pink, salmon-rose, scarlet and yellow. Flowers are 3 to 3 1/2 inches across, come into bloom early, and have exceptional keeping qualities.

- 1155 Princess Finest Mixed...
..... Pkt. 15c

Aster "Navy Blue"

- 1145 NAVY BLUE. 20 in. True navy blue, deep and velvety—a color rarely found in flowers. Extra-early, with large blooms, 4 inches across, and long, narrow petals, twisted and interlaced....
..... Pkt. 15c



The rich coloring of Giant Single Asters is accentuated with golden yellow centers.

Southcote Beauty

(Early Midseason) Height 2 ft.

Like exquisite colored daisies, with their golden yellow centers and perfectly formed petals. Unrivalled by any other aster for cutting and house decoration.

- 1159 Giant Single Southcote Beauty,
Finest Mixed..... Pkt. 15c

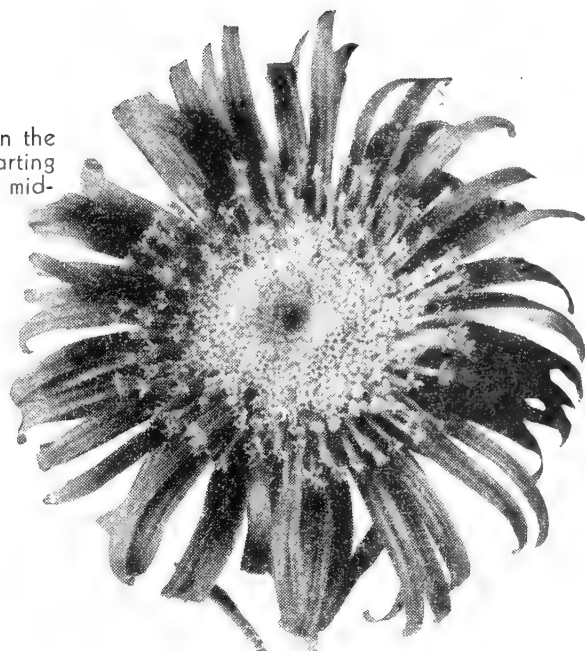
Early Giant

(Wilt Resistant) Height 1 1/2-2 ft.

The most outstanding new development in Asters. The flowers are full petaled and very large, 4 to 5 inches across. Plants are 1 1/2 to 2 feet tall, with branches low on central spike. Stems are strong and heavy, ideal for cutting. This exceptional new class comes into bloom during early to mid August.

- 1115 Light Blue. An exquisite shade.
1116 Peach Blossom. White flushed pink.
1117 Rose Marie. Rich rose.

Any of the above, pkt. 15c
3 pkts. (1 of each) for 40c



Sunshine Asters

(Midseason)

The most beautiful and artistic of all Asters. The flowers have cushion centers of light yellow tubular petals, surrounded by broad guard petals of pink, rose, blue or lavender, producing a wonderful color contrast, and presenting an airy, lace-like effect. Individual blooms are 4 to 5 inches in diameter, on long, stiff stems. Plants 3 ft. high.

- 1169 Giant California Sunshine, Finest Mixed.
..... Pkt. 15c

Brilliant Red Asters

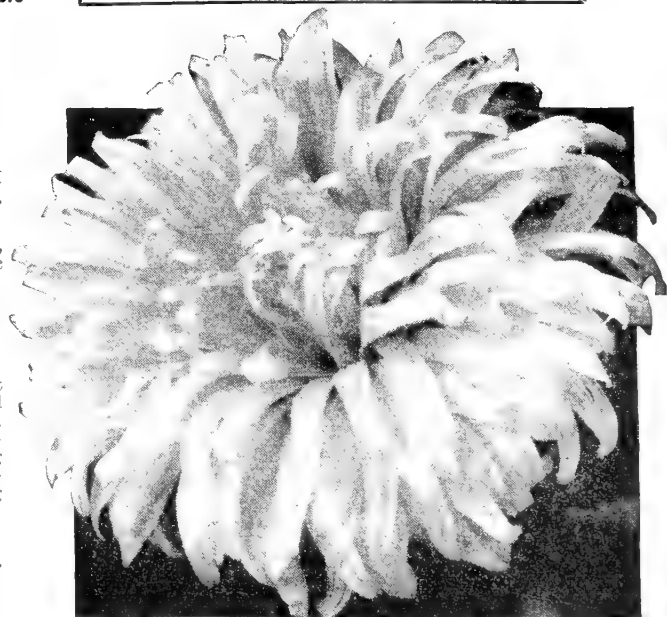
(Early Midseason, Wilt Resistant)

- 1174 SCARLET KING. Brilliant scarlet flowers, large and very double..... Pkt. 15c
1175 HEART OF FRANCE. Rich deep glowing red Pkt. 15c

For Sturdier Plants and Larger, Healthier Blooms

Disinfect your Aster Seed with SEMESAN just before sowing. Use a pinch to a packet of seed, mix well, thoroughly coating seed, and sow. SEMESAN is a simple easy-to-use dust treatment.

1/8 oz. packet 10c



Early Giant Rose Marie a lovely rose-pink.

Baptisias make imposing background plants—handsome and bushy, with deep blue lupine-like flowers.

Giant Double Calendulas

Scotch or Pot Marigold (Annual)

- 1210 **APRICOT BEAUTY**. A new strain with uniformly larger flowers of better formation, longer, straighter stems and greater resistance to summer heat. The color is a two-tone bright apricot.Pkt. 15c
- 1212 **YELLOW COLOSSAL**. (New.) Clear bright yellow flowers, 4½ inches across. Blooms profusely for 3 months.Pkt. 10c
- 1213 **GLOWING GOLD**. (New.) Loose, fluffy petals, giving the appearance of a golden ball.Pkt. 10c
- 1217 **CAMPFIRE** (Sensation). Extra large orange flowers with an iridescent scarlet sheen. ½ oz. 50c; pkt. 10c
- 1219 **DOUBLE ART SHADES**. Pastel hues of apricot, cream, and orange. ½ oz. 50c; pkt. 10c



Calendula "Campfire" is a brilliant orange



Candytuft, Giant Hyacinth-Flowered

California Poppies

Eschscholtzia (Annual)

Only those who have used California Poppies for summer bedding have any idea of the gorgeous effect produced by their brilliant colors. They thrive in loose sandy soil, in full sun and bloom early and continuously.

- 1220 **RAMONA HYBRIDS FINEST MIXED**. Height 12 in. This lovely type has extremely large flowers, beautifully frilled and incurved, giving a semi-double appearance. The colors are rich and brilliant and include coppery gold with pink shadings, golden bronze and bronze-red.Pkt. 10c

Calliopsis Golden Wave (Annual)

- 1222 Height 2-3 ft. Plants are much branched and produce an abundance of showy flowers in various shades of crimson, orange and gold, all summer.Pkt. 10c

Canterbury Bells →

Campanula Biennial

Plants form perfect pyramids about 2 feet high and produce beautiful bell-shaped flowers on long upright stems. Bloom in early summer.

- 1225 **SINGLE CANTERBURY BELLS**. Mixed colors, rose, blue and white.Pkt. 10c
- 1226 **DOUBLE CANTERBURY BELLS**. Mixed colors, pink, blue and white.Pkt. 10c
- 1232 **CUP AND SAUCER CANTERBURY BELLS**. Its very large calyx is the same color as the corolla, giving the flower the appearance of a cup and saucer. Mixed colors.Pkt. 10c



Beautiful "Cup and Saucer" Canterbury Bells.

Two Popular Climbers

CANARY BIRD VINE (Annual Climber)

1235 Height 15-20 ft. Dainty cut foliage and curious bird-like blossoms of a clear canary yellow. Fine for covering stumps, trellises or fences.Pkt. 10c

CARDINAL CLIMBER (Annual)

1245. Height 20 ft. A strong rapid-growing climber with fine fern-like foliage and clusters of bright red flowers from mid-summer to frost. Very showy. Pkt. 10c

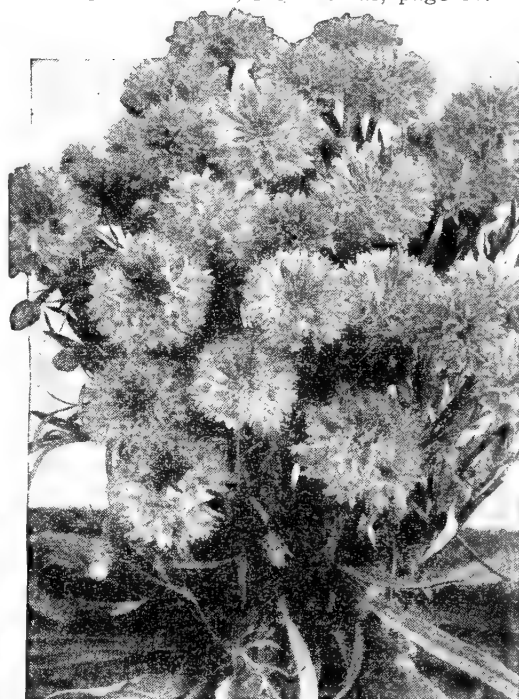
Carnation (Annual)

Few flowers surpass in fragrance the spicily-scented Carnation. Given an early start indoors or in a hotbed, Double Carnations like those grown by florists, can be grown in the outdoor garden. Plants lifted in fall, cut back and potted, will bloom again indoors.

1251 **GIANT ENFANT DE NICE**. Flowers are 2-3 inches in diameter on long, strong stems. Finest mixed colors.Pkt. 15c

1252 **GIANT DOUBLE MARGUERITE**. Blooms abundantly within five months from planting. Finest mixture.Pkt. 15c

CASTOR BEAN, see Ricinus, page 56.



CENTAUREA JUBILEE GEM has vivid dark blue flowers.

Centaurea Cyanus (Annual)

Bachelor's Button—Cornflower

These new improved varieties have larger flowers, stiffer stems and more vivid coloring. They grow about 30 inches tall, bloom all summer, and make fine cut flowers.

- 1260 **RED BOY**. 1261 **SNOWMAN**.
1262 **BLUE BOY**.

Any of above, ¼ oz. 35c; pkt. 10c.

1268 **JUBILEE GEM**. 1 ft. This dwarf variety forms a compact plant, literally covered with vivid deep blue flowers.Pkt. 15c

1269 **DOUBLE MIXED**. ¼ oz. 35c; pkt. 10c

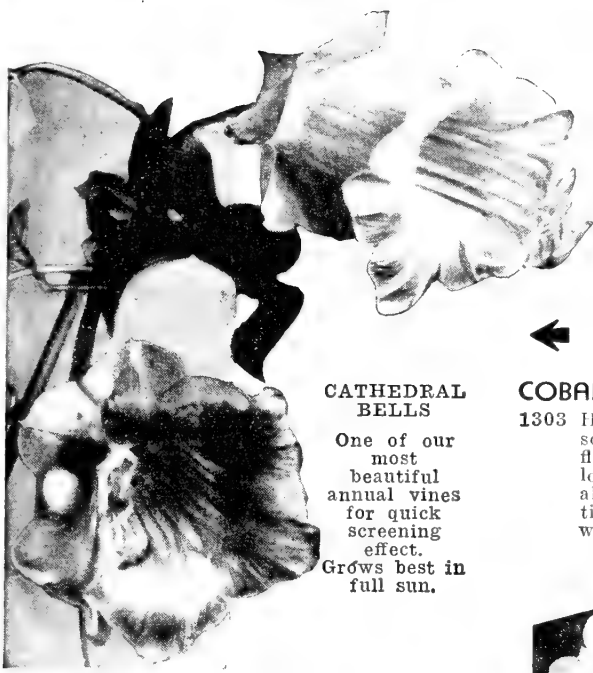
Giant Sweet Sultans, 2½ ft.

Beautiful, fluffy, double flowers on long smooth stems. Fragrant and extra-fine for cutting.

1277 **AMERICANA** (Basket Flower). Lavender.

1278 **IMPERIALIS FINEST MIXED**.

Any of above, ¼ oz. 35c; pkt. 10c



New Cleome

Giant Pink Queen ➡

1302 CLEOME, PINK QUEEN. 4 ft. Huge heads of delightful and refreshing true pink. The large flower bracts turn to white before falling, giving the appearance of a white collar with a pink cap. Grows 4 ft. tall and over, and blooms from July until frost. The foliage is airy and well-branched. An effective background plant. .Pkt. 15c

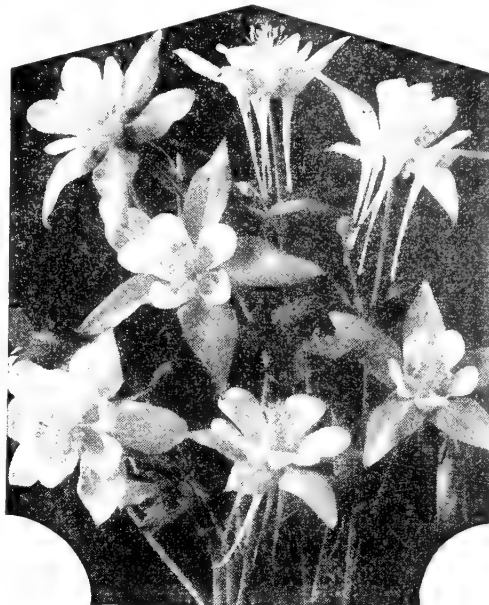
← Cathedral Bells

CATHEDRAL BELLS

One of our most beautiful annual vines for quick screening effect. Grows best in full sun.

COBAEA SCANDENS (Annual Climber)

1303 Height 15-20 ft. A rapid-growing, handsome climber with beautiful bell-shaped flowers 1½ inches across and 2 inches long. Flowers open a clear green, gradually changing to deep violet blue. Particularly desirable for covering arbors, walls, etc. .Pkt. 10c

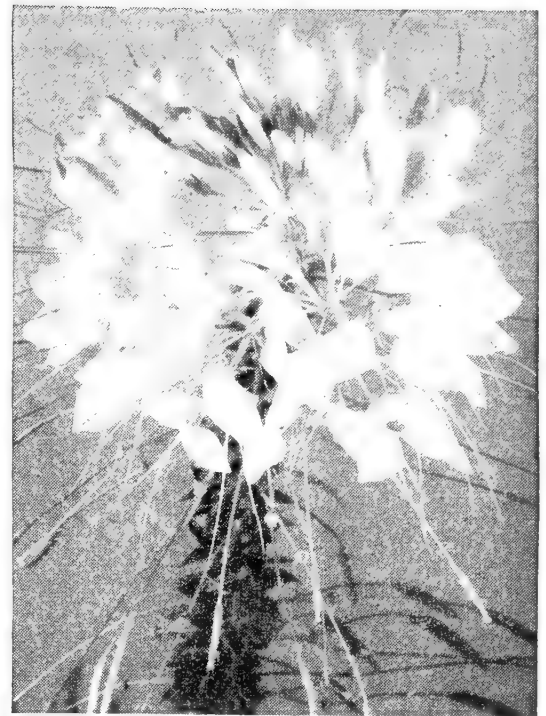


Dainty long-spurred Columbines grow well in half-shade

Columbine Aquilegia (Perennial)

1305 DOBBIE'S IMPERIAL HYBRIDS. Height 2 ft. Splendid plants for partially shaded positions in the border or rockery. Foliage is graceful and fern-like; the dainty long-spurred flowers are produced in strong brilliant shades of blue, lavender, pink and yellow. .Pkt. 15c

See page 45 for the Pocket Book of Flower Gardening—484 pages - Price only 30c



From a distance the flower heads of Cleome look like pink butterflies.

Double Coreopsis (Perennial)

1309 DOUBLE SUNBURST. 2 ft. Double golden-yellow flowers, 1½ to 2 inches across, excellent for cutting as the flowers are easy to grow and fine keepers. Plants are of easy culture and bloom profusely throughout the summer. .Pkt. 15c

Chinese Forget-Me-Not

Cynoglossum (Annual)

1318 DWARF FIRMAMENT. 16 in. Attracts attention wherever grown, because of the extraordinary blue coloring of the flowers. Borne in long sprays, they are a deep brilliant blue, delightful in the garden and when used in flower arrangements. Plants bloom freely over a long season. Pkt.10c

Cypress Vine (Annual Climber)

1319 Height 10-15 ft. A good vine for training on a light ornamental trellis. Bears a profusion of star-shaped scarlet and white blossoms from midsummer to frost. Fine fern-like foliage. .Pkt. 10c



Flowers of Cosmos Sensation are 4 inches across with heavy fluted petals.

Cockscomb Celosia (Annual)

- 1255 CRISTATA. Height 12-18 in. Large ornamental flower-heads frilled and corrugated like a cock's comb. Mixed colors. .Pkt. 10c
- 1258 PLUMOSA. Height 3½ ft. Forms pyramidal branching plants with large feathery flower-heads, ranging from orange to deep crimson. Mixed colors. .Pkt. 10c
- 1259 PYRAMIDALIS (Flame of Fire). Height 1½ ft. Candelabra-shaped plants, each branch terminating in a flower-head of fiery scarlet. .Pkt. 15c

Chrysanthemum

- 1285 ANNUAL CHRYSANTHEMUMS. Height 20 in. Daisy-like flowers in attractive color combinations of yellow, brown, red, rose and white. Useful for mass color effects and excellent for cutting. Bloom all summer.¼ oz. 25c; pkt. 10c
- 1290 SHASTA DAISY (Perennial). Height 2 ft. June-August. Bears large white flowers on long stems; invaluable for cutting. Very free flowering. .Pkt. 10c

Clarkia (Annual)

- 1300 ELEGANS DOUBLE MIXED. Height 2 ft. Plants send up a mass of slender, upright branches, with each branch covered for almost its entire length with charming rosette-like flowers, resembling sprays of Flowering Almond. .Pkt. 10c

Cosmos—Early Giant Flowering

Early Mammoth Single

1310 EARLY FLOWERING MAMMOTH MIXED. 4-6 ft. Tall, graceful, airy plants with handsome large blooms excellent for cutting. Contains soft shades of crimson, pink and lavender. .Pkt. 10c

Early Klondyke

The plants of Early Klondyke are well-branched and very sturdy with deep green serrated foliage and long wiry stems.

1311 ORANGE RUFFLES. 3 ft. Semi-double flowers of flaming orange, with an airy butterfly-like beauty. Blooms early and continuously for 6 weeks. .Pkt. 15c

1313 YELLOW FLARE. 3 ft. A pure golden yellow Cosmos. Exquisite when used with Orange Ruffles. .Pkt. 15c

Giant Early Sensation

1314 SENSATION. Mixed. 4 ft. Mammoth flowers, 4-5 inches across with heavy fluted petals. Colors: rose-pink, dazzling scarlet and white with a satin sheen. .Pkt. 15c

A-1314 SENSATION RADIANCE. 4 ft. Striking deep rose, zoned crimson at base of petals. The first bicolor Cosmos ever to be developed. Flowers are giant in size with long strong stems, ideal for cutting. .Pkt. 25c

Early Double Crested

1315 EXTRA EARLY DOUBLE CRESTED. 4 ft. As large as the popular Sensation Cosmos, but with a 2-inch crested center making it appear even larger. Colors are white, pink and red. .Pkt. 15c

Delphiniums Tall and Stately

HARDY LARKSPUR (Perennial)

- 1333 **BELLAMOSUM**. Deep blue.....Pkt. 15c
- 1334 **BLACKMORE AND LANGDON HYBRIDS**. Enormous flowers in delicate shades of blue, mauve and pink, with bees of contrasting colors.....Pkt. 35c
- 1335 **GOLD MEDAL HYBRIDS**. Color from pale lavender to deep blue, with many double.....Pkt. 20c
- 1336 **WREXHAM HOLLYHOCK STRAIN**. Giant flowered strain with double blooms 1½ to 2 inches across, many of them bi-color.....Pkt. 35c
- 1337 **PACIFIC GIANT HYBRIDS**. Developed on the Pacific Coast. Florets 2 inches across, on 5 ft. stems, slender and wiry. Mildew resistant. Blue shades.....Pkt. 50c

For Annual Larkspur see page 53.

Dianthus or Pinks

China Pinks (Annual)

Easily raised from seed, they bloom from early summer until frost.

- 1340 **HEDDENSIS, WESTWOOD BEAUTY**. 16 in. A new, improved Dianthus, with brilliant red flowers, varying from crimson to scarlet, some attractively edged white.....Pkt. 15c
- 1341 **HEDDEWIGI LACINIATUS, DOUBLE MIXED**. 1 ft. Brilliant colors, many striped and mottled.....Pkt. 10c
- 1348 **HEDDEWIGI LACINIATUS, SINGLE MIXED**. 1 ft. Very large fringed flowers ranging from white to deep crimson. Mixed colors.....½ oz. 25c, pkt. 10c

Didiscus

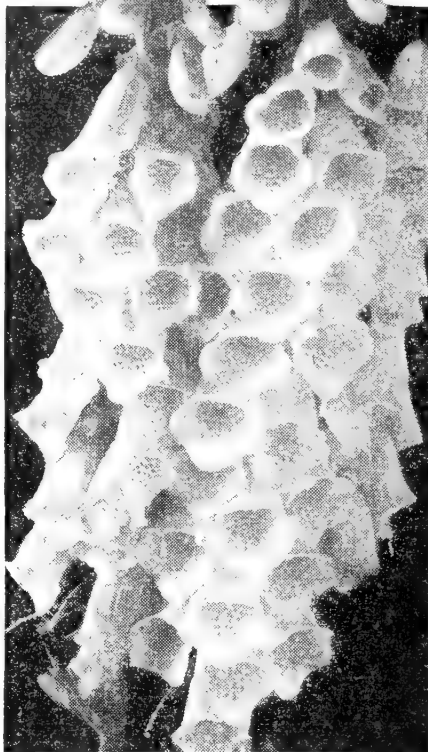
Blue Lace Flower (Annual)

- 1354 Height 2-3 ft. Clusters of lovely umbel-shaped flowers, 2 to 3 inches across are produced from July to frost. Color, an exquisite shade of clear lavender-blue. Fine for cutting.....Pkt. 10c



Gaillardia "Giant Hybrids"
unsurpassed in size and coloring.

Giant Shirley Fox-gloves.



The tall spikes of Foxgloves are found in every well planned border.

Foxglove or Digitalis

- 1355 **SHIRLEY HYBRIDS**. Height 5-6 ft. The flower-heads are over 3 feet long, closely set with big bell-shaped blossoms of white, rose and crimson with beautiful throat markings. Mixed colors.....Pkt. 15c

FEVERFEW, see Matricaria, page 54.

FORGET-ME-NOT, see Myosotis, page 54.

Gaillardias for All-Summer Bloom

Blanket Flower (Annual)

Brilliant and effective either for garden decoration or cutting. Gaillardias delight in a warm sunny location and light, open, well-drained soil. Sow the seed where they are to bloom.

- 1379 **INDIAN CHIEF**. 1 ft. Flowers are a glittering, metallic, bronze-red color with dark brown center....½ oz. 25c; pkt. 10c
- 1380 **LORENZIANA DCUBLE FINEST MIXED**. 18 in. Colors range from light lemon-yellow to deep orange or scarlet with striking bands and flecks of crimson.....½ oz. 25c; pkt. 10c

Gaillardia Grandiflora (Perennial)

One of the few perennials that flowers continuously from June to October. They thrive in any position or soil and are perfectly hardy. Invaluable for cutting.

- 1381 **THE DAZZLER**. 2 ft. Large golden-yellow flowers with rich maroon centers.....Pkt. 20c
- 1382 **BURGUNDY**. 2 ft. Shining wine-red flowers, 2½ inches in diameter on long, stiff stems.....Pkt. 20c
- One packet each of above for 30c.

- 1384 **GIANT HYBRIDS**. 2 ft. Immense flowers in all of the lovely shades of orange, yellow and red, some measuring 4 inches across. The finest strain available.....Pkt. 15c

Dolichos Hyacinth Bean (Annual Climber)

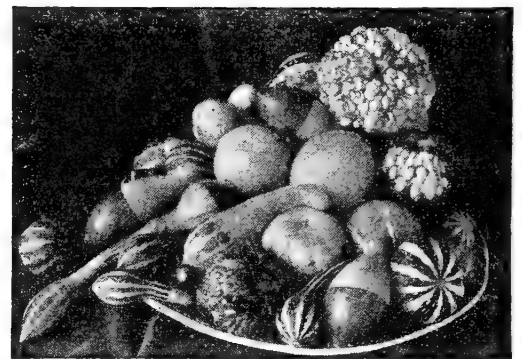
- 1357 Height 10 ft. Large dark green leaves and erect racemes of purple and white flowers, followed by ornamental seed pods of a shining bronze-purple. Grows rapidly.....½ oz. 25c; pkt. 10c

Four O'Clocks Marvel of Peru (Annual)

- 1370 Height 2-3 ft. Erect, bushy plants with dense glossy foliage and hundreds of long-tubed, funnel-shaped flowers of white, yellow, crimson or striped. They remain closed until 4 o'clock in the afternoon when the plants become a glowing mass of color.....½ oz. 20c; pkt. 10c

Gomphrena Globe Amaranth (Annual)

- 1390 Height 18-24 in. Bushy plants with clover-like blossoms of purple-red, yellow, rose and white. Very attractive in winter bouquets. They should be cut before they are fully open.....Pkt. 10c



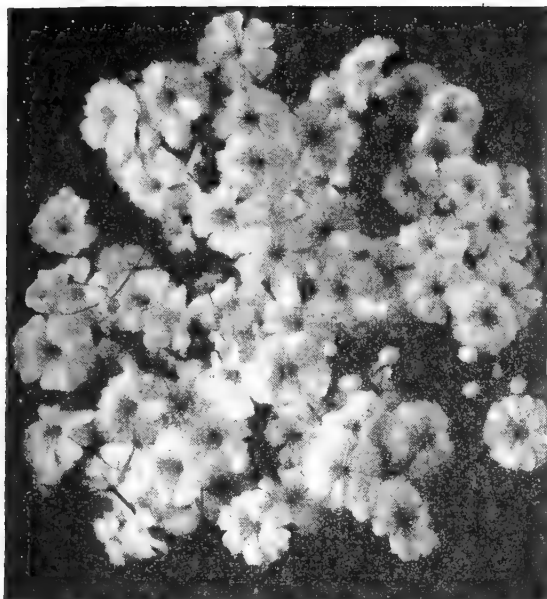
Brightly Colored Gourds for table decorations.

Gourds Small Fruited Ornamental (Annual Climber)

- 1393 **SMALL VARIETIES, MIXED**. 15-20 ft. Useful for covering arbors, fences, etc. The flowers are often beautiful, and the fruits are oddly shaped and quaintly marked and colored. They make unique table decorations and interesting toys for children.....¼ oz. 25c; pkt. 10c



Copper-red Gaillardia Indian Chief.



Annual Baby's Breath will add a charm to any bouquet of garden flowers.

Baby's Breath

Gypsophila (Perennial)

- 1410 **PACIFICA**. New rose-pink form, coming into bloom after the paniculata variety has passed.Pkt. 25c
- 1415 **PANICULATA, DOUBLE SNOW WHITE**. 2-3 ft. An improved type, bearing masses of minute double white flowers. A charming plant in the garden and highly prized for cutting.Pkt. 20c

ANNUAL GYPSOPHILA

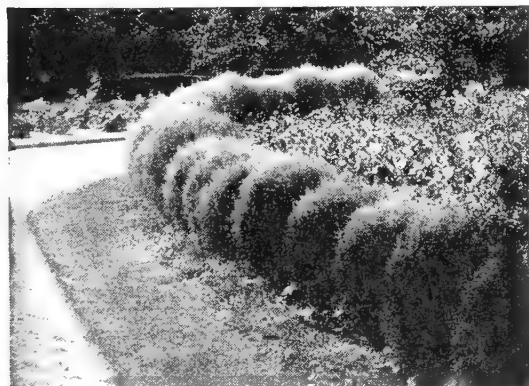
Graceful branching plants with clusters of delicate flowers about one-half inch across. Beautiful in bouquets with other flowers.

- 1416 **ELEGANS GRANDIFLORA ALBA**. 1½ ft. Large-flowering pure white. ¼ oz. 25c; pkt. 10c
- 1417 **ELEGANS GRANDIFLORA ROSEA**. 1½ ft. Beautiful rose-pink. ¼ oz. 25c; pkt. 10c

HELIANTHUS, see Sunflower, page 57.

HELICHRYSUM, Everlasting or Strawflower (Annual)

- 1425 Height 2-3 ft. Large double flowers, 1-1½ in. across, are produced all summer. Colors range from yellow, orange, red and rose to white. Splendid for winter bouquets.Pkt. 10c



Kochia may be clipped to form a perfect hedge.

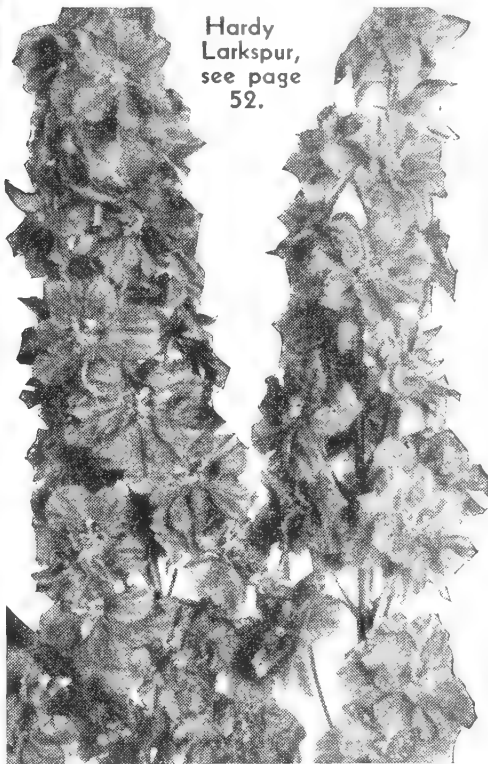
KOCHIA, Summer Cypress (Annual)

- 1465 Height 2-2½ ft. Plants are erect, much-branched and densely pyramidal resembling small closely-sheared evergreens. Foliage is feathery soft bright green, turning to red in fall. ½ oz. 25c; pkt. 10c

Hollyhocks

Hollyhocks are most easily grown from seed sown in late June. Seedlings should be transplanted as soon as large enough to handle, for their taproots make large plants difficult to move, and usually result in injury to the root.

- 1436 **DOUBLE TRIUMPH**. 6-8 ft. Beautifully fringed rosette flowers in many new pastel shades and bi-color combinations. ½ oz. 60c; pkt. 15c
- 1437 **CHATER'S DOUBLE MIXED**. 6-8 ft. Extremely double flowers resembling small peonies with closely packed petals. Color range includes crimson, rose-pink, yellow, salmon and scarlet. ½ oz. 60c; pkt. 15c
- 1440 **ANNUAL INDIAN SPRING**. Blooms in 5 months from seed. Has double and semi-double fringed flowers in shades of pink on 4-5 ft. plants.Pkt. 15c



Hardy Larkspur, see page 52.

GIANT IMPERIAL LARKSPUR with large individual blossoms sets closely on spikes.

Annual Larkspurs

Giant Imperial Double

A new strain, especially valuable for cutting. The spikes are heavily covered with fully double flowers; individual florets are large and closely placed on the stems. Height 3-4 feet.

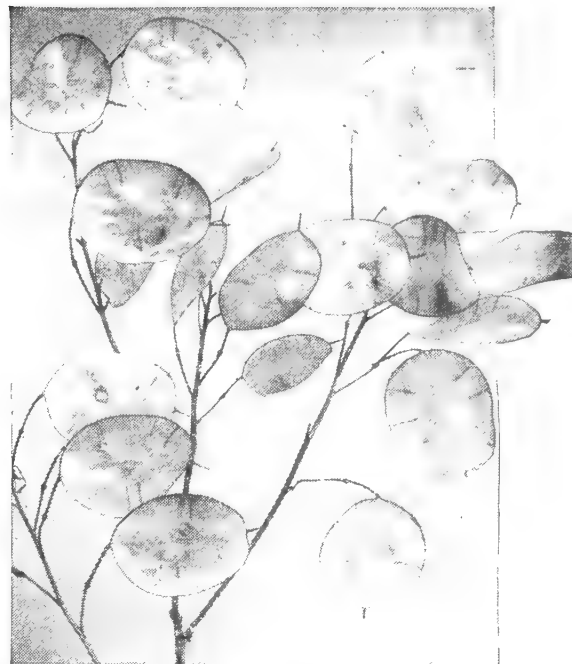
- 1470 **BLUE BELL**. Azure blue.
- 1471 **BLUE SPIRE**. Deep violet-blue.
- 1472 **DAZZLER**. Rich, lustrous scarlet.
- 1473 **MISS CALIFORNIA**. Salmon-rose.
- 1474 **WHITE SPIRE**. Dazzling pure white.
- 1475 **GIANT IMPERIAL MIXED**.

Any of the above, ¼ oz. 60c; pkt. 15c.
3 Packets (your choice) for 30c.

Lathyrus

Perennial Pea
(Perennial Climber) →

- 1480 **LATIFOLIUS**. 6-8 ft. A decorative vine for a trellis or fence. The flowers are borne in large clusters all summer, and are splendid for cutting. Mixed colors: rose, white and crimson. Once established, the roots should not be disturbed.Pkt. 10c



The silvery seed pods of Lunaria are used in winter bouquets.

Lunaria or Honesty

(Biennial)

- 1490 Height 2 ft. Has purple flowers followed by shiny silvery seed pods. It is called "Honesty" because the seeds can be seen through the pods. Also known as St. Peter's Penny. Very attractive in winter bouquets combined with Physalis and other Everlastings.Pkt. 10c

Lupins Hartwegii (Annual)

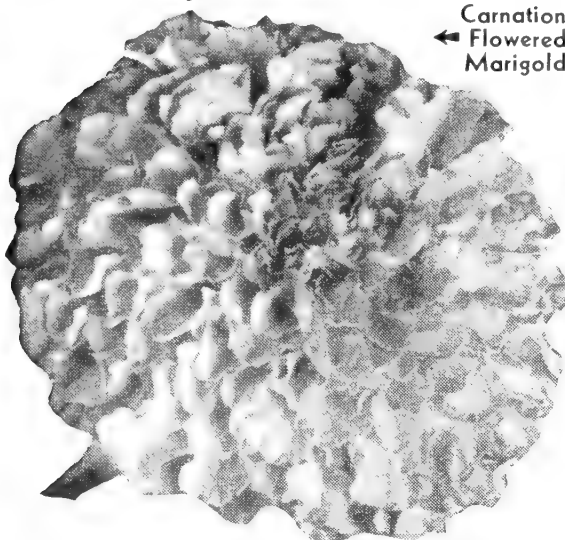
- 1493 Height 2 ft. Tall graceful spikes of pea-shaped flowers in delicate shades of blue, lavender, pink and white. If cut as they mature the plants continue to bloom.Pkt. 10c



Lathyrus can be trained on posts, trellises or wires to fill in any gaps.

Plant a row of Four O'Clocks between your flower and vegetable garden—the plants make a neat low-growing hedge.

Marigolds in New Colors and Types



Chrysanthemum-Flowered Marigolds

- 1495 **GOLDEN BEDDER.** 14 in. Very early. One of the most beautiful of all dwarf marigolds, with bright golden flowers 3 inches across. Plants are a mass of bloom for many weeks.....Pkt. 15c
- 1496 **MAMMOTH MUM.** 3 ft. Great fluffy light sulphur-yellow flowers, 3 inches across and 2½ inches deep. The plants are bushy, erect and strong and bloom early and profusely.....Pkt. 15c
- 1497 **GOLDSMITH.** 2 ft. Early flowering for Northern gardens. This is a beauty, with full double blooms of rich golden orange, 3 inches across. Almost a perfect ball in shape, the flowers are produced on stems of good cutting length....Pkt. 15c

Carnation Flowered Marigolds

- 1498 **MAYLING.** 2 ft. Named in honor of Mme. Chiang Kai-shek. The rich golden yellow frilled flowers grow 3 inches and more across. The petals are incurved practically their entire length and daintily fringed on the outer edges. Plants bloom early and profusely. The foliage is without odor.....Pkt. 15c
- 1499 **REAL GOLD.** 2 ft. This handsome golden orange Marigold has giant exhibition blooms, 4½ inches across, very deep and very double. Its richness of color and size make "Real Gold" outstanding in every way.....Pkt. 15c

Carnation Flowered Marigolds With Odorless Foliage

- 1500 **SPECIAL MIXTURE.** 1½-2½ ft. Deep orange, golden orange, golden yellow, canary-yellow and primrose flowers in a magnificent mixture. Fine for garden decoration and especially desirable for cutting as the foliage is odorless.....Pkt. 15c

Double African Marigolds

- 1502 **FINEST MIXED VARIETIES.** 2½ ft. Immense ball-shaped, perfectly double blooms on long, stiff stems. Colors include canary-yellow, dazzling orange and rich golden yellow. They make a magnificent display in the garden and furnish flowers for cutting until frost..Pkt. 10c

Mammoth Marigold Collection

- | | | | |
|------|---|-------------|-----|
| One | } | MAMMOTH MUM | 30c |
| Pkt. | | MAYLING | |
| Each | | REAL GOLD | |

Carnation
Flowered
Marigold

Marigolds are sun-loving plants, thriving in hot, dry locations. With their wide variations in height, color and form, they may be used to advantage in many parts of the garden.

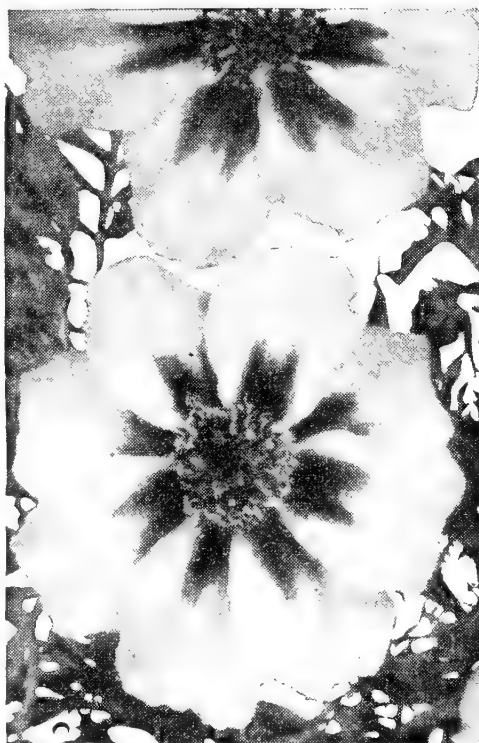
Dwarf French Marigolds

For Borders, Pot Plants and Bedding.

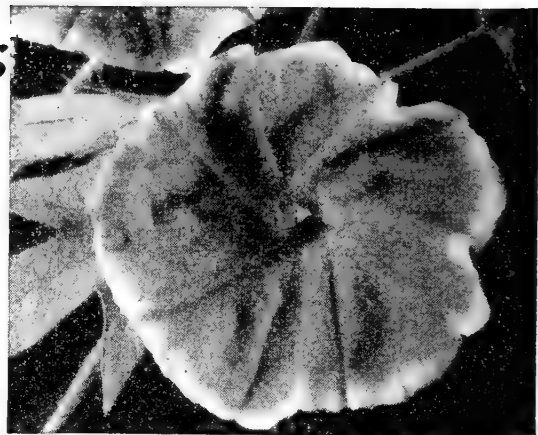
- 1503 **SPRY.** 9 in. Flowers have a bright orange crested center with maroon outer petals. Plants are uniform, compact, early flowering.....Pkt. 15c
- 1504 **DWARF ROYAL SCOT ALL DOUBLE.** 10 in. This new strain is of dwarf bushy growth, with rich mahogany and gold flowers uniformly striped.....Pkt. 15c
- 1505 **DWARF DOUBLE BUTTERBALL.** 9 in. An exquisite little Marigold with 1½-inch canary-yellow blooms. Early and continuous flowering, excellent for edging or pot plants....Pkt. 15c
- 1507 **DWARF DOUBLE SUNKIST.** 9 in. A Silver Medal Winner. Very early and like Butterball in habit and form, but the color is a rich, deep orange...Pkt. 15c
- 1508 **NAUGHTY MARIETTA.** 12 in. This lovely dwarf single French marigold has flowers 2-2½ inches in diameter. In full bloom, the plants are 16 inches across, completely covered with bright golden-yellow flowers, attractively marked with mahogany at the base of the petals. Very showy, for beds and borders....Pkt. 20c
- 1510 **FLASH.** 1½ ft. Single French, with flowers of rich, velvety red and gold—two-tone in effect. Brightens dull spots in the garden and is ideal for borders, pot plants and cut flowers.....Pkt. 15c

Marigold Border Collection

- | | | | |
|------|---|------------|-----|
| One | } | SPRY | 35c |
| Pkt. | | BUTTERBALL | |
| Each | | SUNKIST | |



Naughty Marietta, a golden-yellow Marigold marked with mahogany.



Morning Glory Cornell has flowers of intense carnelian-red, bordered white.

Morning Glories

Ipomea (Annual Climber)

- 1520 **PEARLY GATES.** Large satiny white flowers with cream shading in throat. The luxurious foliage sets off the flowers to best advantage and gives them a beautiful appearance.....Pkt. 15c
- 1523 **CORNELL.** Large flowers of an intense carnelian red, with a pure white border. The vines are strong and bloom profusely until killed by frosts.....Pkt. 15c
- 1524 **COLUMBIA.** Giant 3-inch trumpets of rich blue, edged bluish-white, with a red star.....Pkt. 15c
- 1525 **SCARLETT O'HARA.** A new color in Morning Glories. Rich wine-red or deep crimson. Very showy. For early flowering, the seed should be started in pots in March.....Pkt. 15c
- 1526 **EARLY FLOWERING HEAVENLY-BLUE.** Vines are a mass of lovely sky-blue flowers, 2½-3 inches across, from early summer to frost.....Pkt. 15c
- 1527 **SELECT MIXED.** Flowers are ruffled and fluted from throat to margin. Colors: red, rose, garnet, blue, purple, etc.....½ oz. 40c; pkt. 10c

Morning Glory Collection

- | | | | |
|------|---|-----------------|-----|
| One | } | Scarlett O'Hara | 40c |
| Pkt. | | Pearly Gates | |
| Each | | Heavenly Blue | |

Matricaria (Tender Perennial)

- 1512 **CAPENSIS.** 18-24 in. Plants are bushy in growth, with finely cut leaves and clusters of small, tightly double, white flowers. Excellent for pot plants, bedding and cutting.....Pkt. 10c

Moss Rose, see Portulaca, page 56.

MOURNING BRIDE, see Scabiosa, page 57.

Myosotis Forget-Me-Not (Perennial)

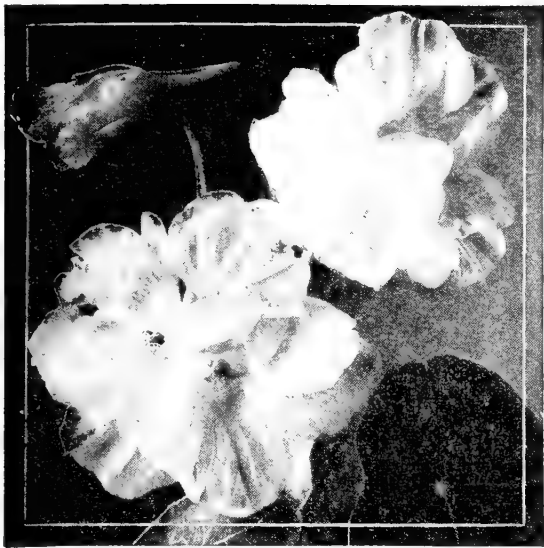
- 1535 Height 4-9 in. Plants are of compact habit with large clusters of exquisite clear blue flowers. Flourish in moist shady positions. Require winter protectionPkt. 10c

The Flower Educator

Contains over 600 pages and hundreds of illustrations including full page plates of flowers. Printed in large type, easy to read. Flexible art binding.

Complete Pocket Size \$1.50
Reference Index ppd.

New Calendula, "Apricot Beauty," is bred to resist summer heat, and blooms over a long season. See page 50.



Sweet Scented Double Gleam Nasturtiums

Nasturtiums

Will bloom most prolifically if given a rather poor soil and an open sunny position.

Double Gleam Type

- 1570 **GOLDEN GLEAM.** Fragrant golden-yellow flowers on long stems.
- 1571 **SCARLET GLEAM.** Fiery orange-scarlet flowers with ruffled petals.
- 1572 **DOUBLE GLORIOUS GLEAM HYBRIDS.** Gorgeously colored flowers of salmon, yellow, cream, orange, scarlet, maroon and rose shades.
- Any of above, pkt. 15c, 3 pkts. for 35c
- 1573 **DWARF DOUBLE GEM MIXED.** Compact plants, ideal for edging. Semidouble, fragrant flowers in a bright range of colors. Pkt. 15c
- 1574 **DWARF SINGLE MIXED.** 1 ft. Giant flowers in a great variety of gay color combinations and the brilliant self-colored sorts. Oz. 25c; pkt. 10c
- 1575 **TALL GIANT FLOWERING MIXED.** Excellent for scrambling over sunny banks, stone walls or for covering bare spots in the rock garden. . . Oz. 25c; pkt. 10c



Nicotiana Flowering Tobacco (Annual)

- 1540 Height 2-3 ft. Plants are of branching habit, and bloom continuously from early summer until frost. The flowers resemble petunias, but have a longer tube. They open toward evening and emit a heavy fragrance. Hybrids mixed. Pkt. 10c

Nigella Love-in-a-Mist (Annual)

- 1545 **MISS JEKYLL.** Height 18 in. Plants are compact and free-flowering with finely cut foliage and large semi-double flowers of a lovely cornflower-blue on long stems. Pkt. 10c

Brilliant New Petunias

Bedding Petunias

Dense bushy little plants, 8-12-inches high, literally covered with flowers all summer until killed by frost. Indispensable for borders, pots, rock gardens and bedding.

- 1640 **ADMIRAL.** Excels all other dwarf blue Petunias in its clear dark blue coloring and uniform habit of growth. Blooms profusely. Pkt. 25c
- 1642 **RADIANCE.** Brilliant cerise-rose with a salmon undertone to remove all harshness. Blooms are 2½ inches across with a golden throat. . . Pkt. 20c
- 1645 **HOLLYWOOD STAR.** Distinctive five-pointed star-shaped flowers of deep rose-pink with a golden throat. Pkt. 20c
- 1646 **ENGLISH VIOLET.** An All-America Selection. It has the same beautiful color as English Violets. Flowers hold this uniform color from the time they open until the last bloom. . . . Pkt. 20c

- 1648 **MARS.** Uniform, deep rich crimson, with a velvety texture. Blooms average 3 inches. Pkt. 20c
- 1649 **TOPAZ QUEEN.** Brilliant, deep rose-pink. Does not fade in the brightest sun. Extra dwarf, with large flowers. Pkt. 20c
- 1651 **FINEST MIXED BEDDING PETUNIAS.** All colors. ¼ oz. 60c, pkt. 10c

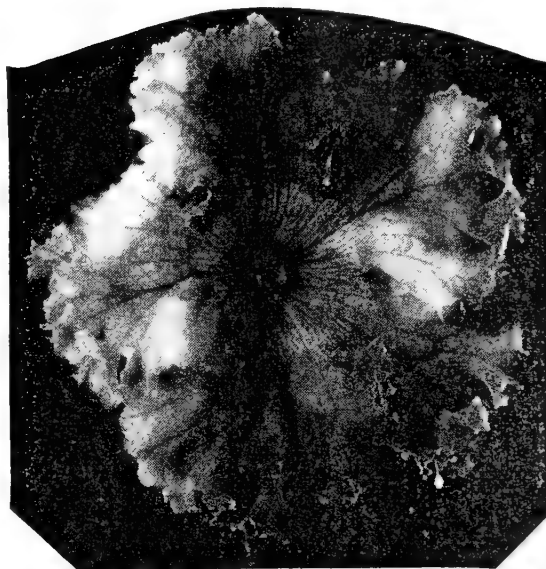
Washington Petunias Ruffled & Frilled

Bushy little plants only 9 inches high. Just the thing for window boxes, pots and bedding.

1647 **GENERAL WASHINGTON.** The 3-inch trumpets are a rich velvety amaranth-red, with glistening reddish-black throat.

1650 **MARTHA WASHINGTON.** Large trumpets of blush-pink veined wine-red, and deepening to violet in center of flower.

Each, pkt. 35c, 2 pkts. for 60c



Theodosia, a Giant Single Fringed Petunia of Soft Rose-Pink.

Giant Petunias

For Pot Plants or Bedding. Plants grow about 12 inches high, of bushy habit, with enormous flowers, 4 inches across.

- 1652 **KING HENRY.** Color a velvety blood-red. Plants of compact, globular habit, with giant single blooms on short stems. Pkt. 25c
- 1653 **SETTING SUN.** A Giant Single Flowering Fringed Petunia. Forms compact bushes, 12 inches high, covered with fringed blossoms of bright rose-pink, measuring 3 inches across. . . . Pkt. 25c
- 1654 **ELK'S PRIDE.** A Giant Single Petunia of exceptional beauty. The color is a deep, velvety purple. Plants are dwarf, compact and vigorous. . . Pkt. 25c
- 1655 **THEODOSIA.** A Giant Single Fringed Petunia of soft rose pink, with wide golden throat, delicately veined. Gracefully fringed and ruffled. . . . Pkt. 25c

A typical plant of Bedding Petunia. Note the well rounded bush form.

Balcony Petunias

Of graceful, trailing habit, this strain of Petunias was developed for use in porch and window boxes.

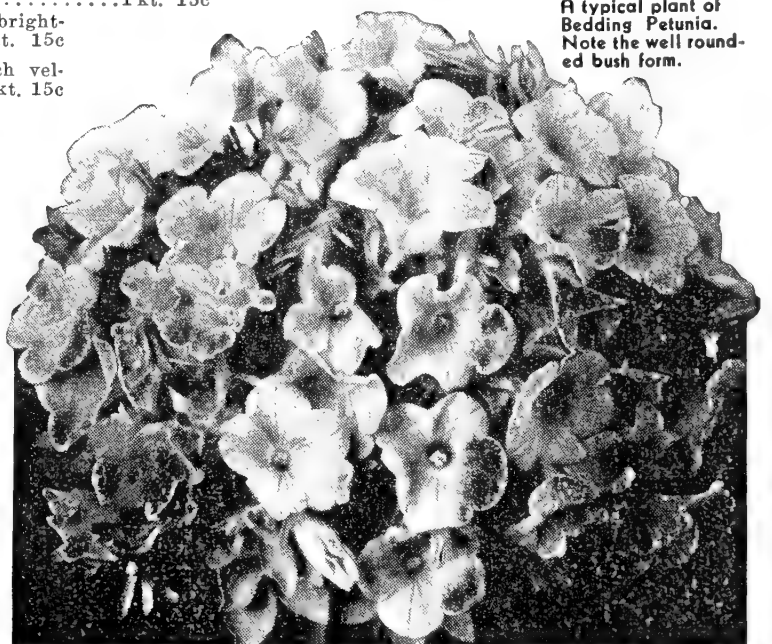
- 1656 **DEEP BLUE.** Deep violet-blue. Pkt. 15c
- 1657 **ROSE.** Brilliant rose. Pkt. 15c
- 1658 **RED WONDER.** The brightest red. Pkt. 15c
- 1659 **BLACK PRINCE.** Rich velvety red. Pkt. 15c
- 1660 **STAR OF CALIFORNIA.** Crimson, with white star. Pkt. 15c

Garden Books

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4 volumes, 1,700 pages, hundreds of illustrations. Tells how to prepare the soil, how to plant, grow and improve vegetables, fruits and flowers. Circular free.

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Giant Pansies

Pansy seed may be started indoors in February or in a cold frame in March, in carefully pulverized rich soil.

Transplant to open ground in May.

If flowers are picked regularly, the plants will continue to bloom until frost. Protect with a mulch of straw, in fall, and they will endure hard winters with perfect safety.



PANSY PLANTS on Page 27.

- 1620 ENGLEMAN'S SPECIAL GIANT. Re-selected to a strain of immense flowers from the old Scottish Show type. Bronze and reddish shades. Vigorous, compact and early flowering.....Pkt. 35c
- 1628 ROGGLI SWISS GIANTS MIXED. Gigantic flowers of heavy texture on strong stems. The colors are choice and rare, surpassing in quality and range all other Swiss Giants.....Pkt. 35c

- 1629 MASTERPIECE OR RUFFLED PANSIES. A remarkable strain of Giant Pansies with beautifully frilled petals, so full as to appear almost double. Rich colors, with dark velvety shades predominating.....Pkt. 25c
- 1631 TRIMARDEAU MIXTURE. A superior strain, with robust deep-rooting plants and flowers of mammoth size and great substance. Choice mixed colors..Pkt. 15c



Sow PORTULACA in low border edgings, between stepping stones and in the rock garden. It makes a brilliant floral carpet.

Annual Phlox

Drummondii Gigantea

Improved Annual Phlox rivals in size the hardy perennial varieties and is unsurpassed for massing and bedding. It provides an un-failing display of color and cut flowers from early July until well into October.

- 1666 FINEST BEDDING MIXED. 12 in.
1673 STAR CHOICE MIXED. 12 in.
Each of above, pkt. 15c, 2 pkts. for 25c.

PINKS; see Carnation, Dianthus and Sweet William.

Platycodon

Balloon Flower (Perennial)

- 1679 GRANDIFLORA BLUE. Height 18-24 in. Handsome compact-growing plants, bearing an abundance of broad, bell-shaped blue flowers in July. The flowers when in bud have the appearance of inflated balloons.....Pkt. 10c

Pyrethrum

Painted Daisy (Perennial)

- Large daisy-like flowers on stiff, 2-foot stems. Come into bloom in June and continue through July. Prized for cutting because of their fine keeping qualities.
- 1726 JAMES KELWAY. Rich, velvety blood-red.....Pkt. 20c
- 1727 ROBINSON'S HYBRIDS. Includes a fine color range.....Pkt. 20c

Portulaca

Moss Rose (Annual)

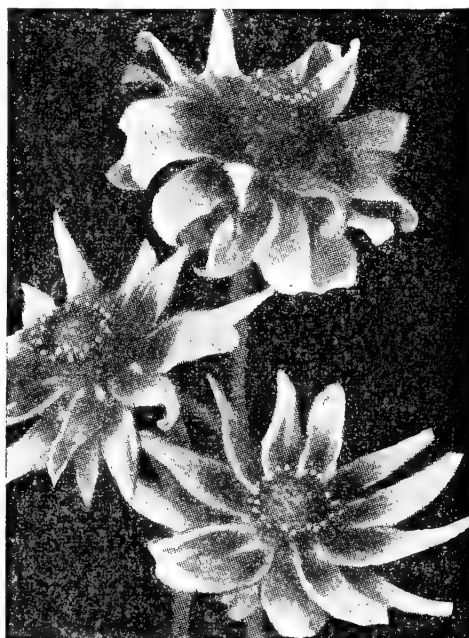
Portulacas thrive in a dry, sunny position where most other flowering plants would die of drought. They are but 4 inches high, of spreading habit and form a dense thick carpet. The glossy cup-shaped single blossoms and rose-like double flowers cover the plants and make a brilliant display all summer.

- 1711 JEWEL. A rare beauty, four times as large as the usual Portulaca flower. The color is a brilliant deep crimson, vivid and outstanding.....Pkt. 20c
- 1712 SINGLE MIXED... 1/2 oz. 50c; pkt. 10c
- 1713 DOUBLE MIXED... 1/2 oz. 75c; pkt. 15c

Ricinus

Castor Bean (Annual)

- 1730 RED SPIRE. 6-8 ft. Foliage plants of luxuriant and rapid growth, valuable for backgrounds and screens, producing a rich tropical effect. The leaves are of enormous size, deeply lobed and conspicuously veined, dark green and bronze in color.....Oz. 50c; pkt. 10c



RUDBECKIA "STARLIGHT."

Gorgeous Poppies

ICELAND POPPIES (Nudicaule)
Perennial

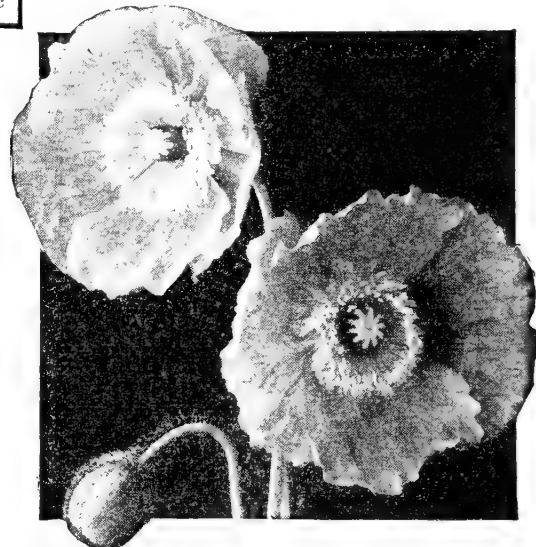
To brighten the garden, you can make no better choice than the new improved Iceland Poppies. They bear immense flowers with broad, deeply fluted petals, giving a semi-double effect. Bloom freely the first year from seed if sown early.

- 1706 GARTFORD GIANT ART SHADES. 18 in. Exceptionally large flowers, fluted, and carried on long stems. The colors include lovely pastels.
- 1707 THE EMPEROR. 18 in. Deep tangerine orange.
- 1709 YELLOW WONDER (Amurense). 18 in. Bright buttercup yellow. Heat and drought resistant.

Any of above, pkt. 20c; 3 pkts. for 50c

ORIENTAL POPPY Perennial

- 1710 Height 2-3 ft. For gorgeous coloring Oriental Poppies have few rivals among hardy plants. The flowers are often 6 inches across and are borne on tall stems. Produce a magnificent effect.....Pkt. 15c



ICELAND POPPY "EMPEROR."
Has silky-textured, fluted flowers of deep tangerine orange.

Annual Poppies

- 1691 AMERICAN LEGION. An improved variety of Flanders Poppy. Flowers are a brilliant orange-scarlet of enormous size, on long stout stems..... 1/4 oz. 25c; pkt. 10c
- 1692 GIANT SHIRLEY (Silk or Ghost). 1 ft. Beautiful satiny flowers, 4 inches across, with fluted, crinkled petals. Colors contain delicate shades of rose, apricot, salmon-pink and crimson with occasional blues. Foliage is hairy and finely cut..... 1/2 oz. 40c; pkt. 10c
- 1695 DOUBLE SHIRLEY POPPY, "Sweet Briar." Deep rose-pink flowers, full and double. Resembles a large double Begonia.....Pkt. 10c

← Rudbeckia Coneflower (Annual)

Thrives in Hot, Dry Locations

- 1715 STARLIGHT. 2 1/2 ft. Large-flowered, semi-double hybrids. The colors range from primrose-yellow to mahogany and bi-colors, with dark brown centers. Very attractive and long-lasting when cut. Plants are free-flowering when grown in full sun.....Pkt. 15c

The brilliant colors of Portulaca, combined with Ageratum and Sweet Alyssum make a superb edging for a sunny path or driveway.

New Double-Flowering Scabiosas

Pin-cushion Flower (Annual)

The new improved Scabiosas have large, cone-shaped flowers of great depth. Borne on long, graceful stems, they are exceedingly fine for cutting.

- 1752 **IMPERIAL GIANTS BLUE MOON.** Lavender-blue flowers with broad, frilly petals.....Pkt. 15c
 1753 **PEACE.** Semi-tall pure white.....Pkt. 15c
 1754 **BLUE COCKADE.** Pure deep azure blue.....Pkt. 15c
 1757 **GIANT HYBRIDS MIXED.** Colors include shades of red, rose and blue..... $\frac{1}{4}$ oz. 60c; pkt. 15c

PERENNIAL SCABIOSA

Blue Bonnet (Caucasica)

- 1758 **GIANT HYBRIDS.** Height 18-24 in. Graceful flowers in delicate shades of blue and lavender, with fringed and ruffled petals. Plants require rich well-drained soil and prefer full sun.....Pkt. 20c

Rust-Resistant Snapdragons

Antirrhinum (Annual)

- 1765 **CALIFORNIA GIANT MIXED.** Developed by scientists of the University of California, this strain is resistant to rust. The seeds germinate better, the plants are more vigorous, the foliage clean, the flowers large and the colors exceptionally clear and beautiful. Height 2 $\frac{1}{2}$ ft.....Pkt. 20c
 1766 **GIANT MIXED SNAPDRAGONS.** Height 30 in..... $\frac{1}{8}$ oz. 50c; pkt. 10c
 1767 **HALF DWARF SNAPDRAGONS.** Height 18 in..... $\frac{3}{8}$ oz. 50c; pkt. 10c

Salpiglossis

Painted Tongue or Velvet Flower (Annual)

- 1741 Height 2-2 $\frac{1}{2}$ ft. Beautiful velvety petunia-like flowers, greatly prized for cutting. They range in color from various shades of purple and blue through red and yellow to creamy white, delicately veined and penciled with gold. Bloom from July to frost.....Pkt. 10c; 3 pkts. for 25c

Bright Salvias

Scarlet Sage (Annual)

Handsome summer and autumn-flowering annual with brilliant flowers; very effective for massing, bedding and cutting. Useful also for window box and pot plants.

- 1745 **SPLENDENS.** 2-3 ft. Plants are much branched with large spikes of bright scarlet flowers produced in profusion during the summer and fall..... $\frac{1}{8}$ oz. 60c; pkt. 15c
 1746 **FIREBRAND (Harbinger).** 15 in. A true dwarf, large-flowering Salvia. The symmetrical plants are completely covered with long sprays of large brilliant scarlet flowers.....Pkt. 25c
 1747 **FARINACEA BLUE BEDDER.** 2-3 ft. Long spikes of showy deep blue flowers, splendid for garden display and cutting. Can be dried and used as an everlasting.....Pkt. 20c

Scarlet Runner Bean

(Annual Climber)

- 1760 Grows 12 to 15 ft. high, with brilliant scarlet flowers followed by green shell beans excellent for table use.....Lb. 45c; $\frac{1}{2}$ lb. 25c; pkt. 10c

Schizanthus

Butterfly Flower or Poor-man's Orchid (Annual)

- 1764 **GIANT-FLOWERING HYBRIDS MIXED.** 18 in. Exquisite, butterfly-like blossoms in many of the delicate colors and shadings found in orchids. A group of these plants is delightful in the garden, and makes a mass of wonderful coloring.....Pkt. 15c
 SHASTA DAISY, see Chrysanthemum, page 51.

Statice

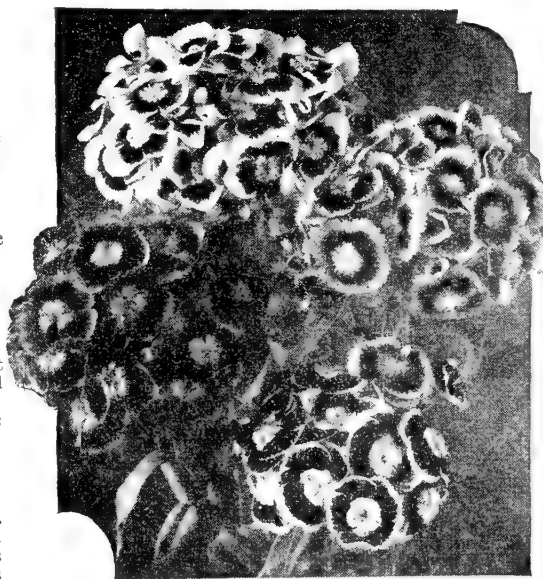
Sea Lavender (Annual)

- 1769 **SINUATA.** 1-2 ft. Suitable for growing in rock gardens and charming when dried for winter bouquets. The flowers are produced in racemes on long, graceful stems. Colors: rose, blue and white; retains its true colors when dried.....Pkt. 10c

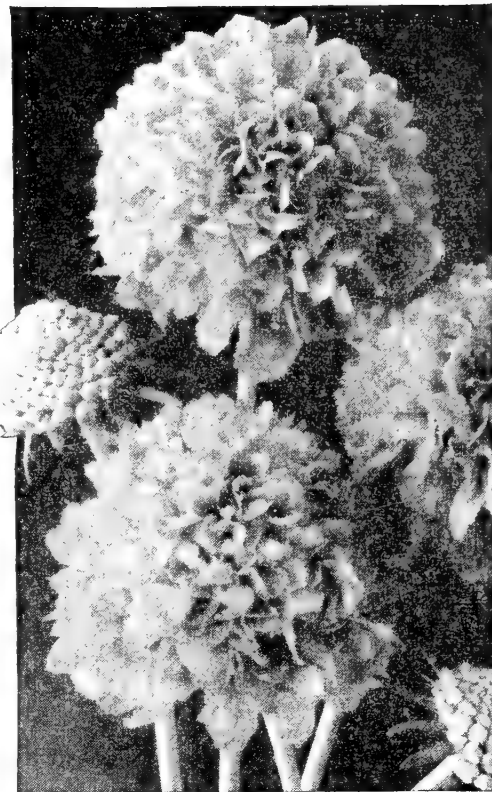
Stokesia

Cornflower Aster (Perennial)

- 1780 **CYANEA.** 2 ft. One of the choicest flowers for the garden and indispensable for cutting. Plants are much branched and bear freely from July until frost, the handsome lavender-blue flowers which measure from 4 to 5 inches across. Of easy culture, succeeding in any open, sunny position.....Pkt. 15c



To have strong, thrifty plants and large flowers, sow seed of Sweet William every year.



Scabiosa "Imperial Giants Blue Moon"—new in form, with broad wavy petals.

Colorful Stocks Giliflower (Annual)

Their deliciously-scented flowers are borne in branching spikes on velvety-leaved plants. The secret of growing good Stocks in the garden is to start the seed early indoors, prick the seedlings into tiny pots, and keep them growing rapidly until they can be set outdoors in the richest possible soil.

- 1772 **DWARF TEN WEEKS.** 12 in. Large-flowering, double, fine for bedding. Finest mixed colors.....Pkt. 10c
 1777 **GIANT IMPERIAL.** 24 in. Double. Given sufficient room, the plants form magnificent bushes with long, thick flower. Finest mixed colors.....Pkt. 15c

Sunflower Helianthus (Annual)

Grow them as a background for the vegetable garden. The new dwarf varieties make excellent cut flowers. Thin plants to 1 $\frac{1}{2}$ ft. apart.

- 1830 **DWARF MAROON PRINCE.** 3 ft. The best red sunflower.....Pkt. 15c
 1831 **SUN GOLD.** 4 ft. Brilliant golden yellow flowers, fully double.....Pkt. 15c
 1832 **MAMMOTH RUSSIAN.** 8-10 ft. Huge flat flower heads grown for the seeds which are fed to parrots, poultry and birds. Planted in the poultry yard the plants furnish shade, and when planted in the vegetable garden the stalks will serve as poles for climbing or pole beans. Oz. 10c

SWEET ALYSSUM, see Alyssum, page 48.
 SWEET SULTANS, see Centaurea, page 50.

Sweet William Dianthus Barbatus (Perennial)

One of our finest hardy garden plants, of easy culture and thriving in any good garden soil. Grow 12 to 18 inches high, with flowers in flat clusters on tall stiff stems.

- 1890 **SINGLE LARGE FLOWERED MIXED.**
 1891 **DOUBLE LARGE FLOWERING MIXED.**
 Each of the above, pkt. 10c.

A border of Salvia "Firebrand," edged with lavender and white Alyssum, will provide a brilliant long-season display.

Early Spencer

Spring-Flowering Sweet Peas

Best for the North and Middle West, as they come into bloom a month earlier than the late Spencer varieties and continue to bloom for a much longer period. Our leaflet, "How To Grow Sweet Peas," is free for the asking.

Free Leaflet,
"How to grow
Sweet Peas."
Ask for it.

- 1834 **American Beauty.** Rich crimson-rose.
- 1835 **Amethyst.** Royal purple.
- 1836 **Ball's Rose Improved.** Deep rose-pink.
- 1839 **Laddie Improved.** Light rose-pink.
- 1843 **Fragrance.** Clear lavender.
- 1845 **Daphne.** Soft salmon-pink.
- 1847 **Mariner.** Clear marine-blue.
- 1848 **Mars.** Deep crimson.
- 1850 **Treasure Island.** Sparkling orange.
- 1851 **Oriental.** Deep cream.
- 1852 **Othello.** Maroon.
- 1854 **Red Cross.** Dazzling scarlet-cerise.

Your choice, any of the above,
pkt. 15c; 6 pkts. for 65c.

Late Spencer

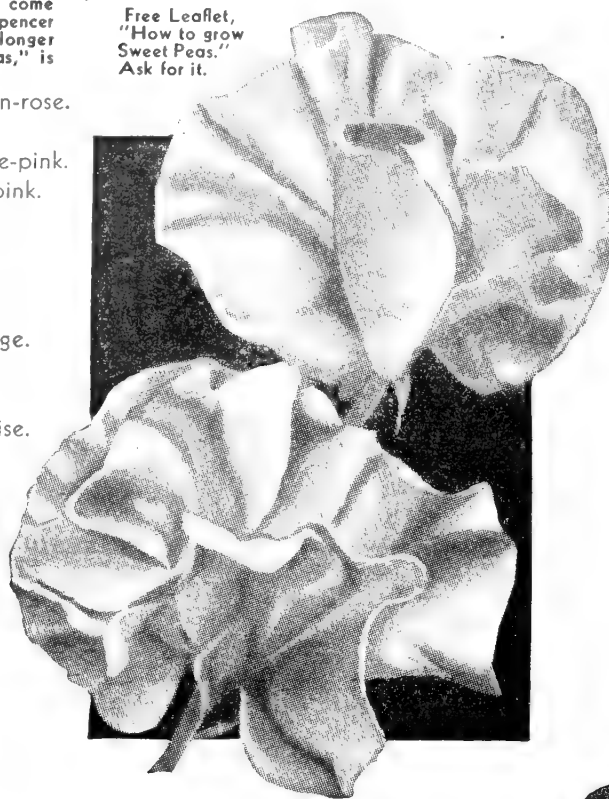
Summer-Flowering Sweet Peas

- 1857 **Ruffled Blue.** Medium blue.
- 1858 **Bonnie Ruffles.** Cream-pink.
- 1859 **Ruffled Crimson.** Rich crimson.
- 1861 **Ruffled Purple.** Rosy purple.
- 1862 **Ruffled Rose.** Pure rose.
- 1864 **Ruffled White.** Pure white.

Any Summer-Flowering Spencers,
pkt. 15c, 3 pkts. for 35c.

- 1865 **RAINBOW MIXED SPENCER.** Giant Waved varieties in a complete color range.... ¼ lb. \$1.00; oz. 30c; pkt. 10c
- 1875 **EARLY FLOWERING SPENCER MIXED.** Come into bloom a month earlier than other sorts.....Oz. 60c; pkt. 15c

Giant Sweet Peas



Dwarf Sweet Pea "Bo-Peep"

1833 **BO - PEEP.** Large salmon-pink flowers, rich and gorgeous when planted solid in beds, or may be planted in rows in the garden. Need no staking or support.

Pkt. 15c, 2 pkts. for 25c

For Perennial Pea see Lathyrus, page 53.

Vivid Verbenas

Giant Hybrid (Annual)—Height 1 ft.

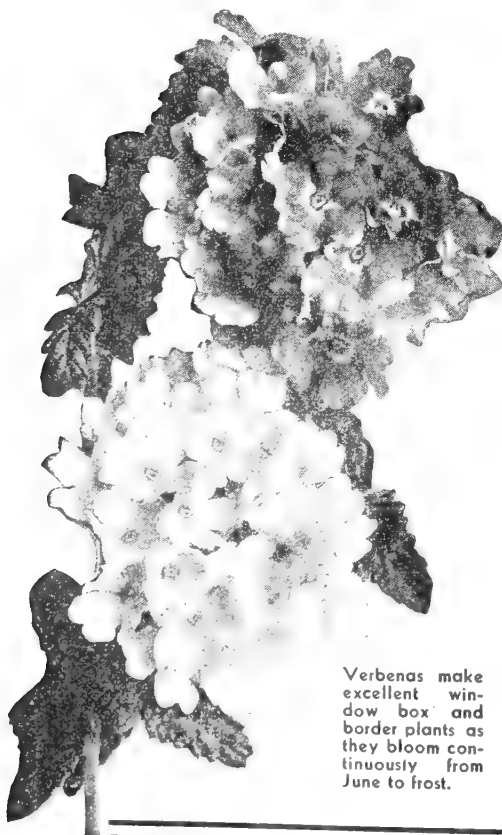
- 1899 **FLORADALE BEAUTY.** Giant trusses. Shades from rose-pink to rose-red.....Pkt. 15c
- 1900 **BLUE AND PURPLE SHADES.**....Pkt. 10c
- 1905 **VENOSA.** The bright rosy purple flowers are borne in dense racemes and are invaluable for cuttingPkt. 10c
- 1907 **CRIMSON GLOW.** A pure glowing crimson without an eye.....Pkt. 15c
- 1908 **GIANT HYBRID MIXED VERBENAS.** This mixture includes shades of blue, lavender, purple, yellow, rose and scarlet. Will provide flowers for cutting all summer.....Pkt. 15c
- 1909 **HYBRIDA GRANDIFLORA "SALMON PINK"** (New Bush Type). Height 10 in. Broad flat-topped bushy plants, 12 to 15 inches across, covered with large broad-petaled flowers of bright salmon-pink with a small white eye. Make attractive bouquets.Pkt. 15c

Dwarf Compact Varieties—Height 7 in.

Compact in habit, continuous bloomers, adapted for bedding, borders and small gardens.

- 1910 **WHITE BALL** 1911 **BLUE SENTINEL**
- Each of the above, pkt. 15c; 2 pkts. for 25c.

Verbenas make excellent window box and border plants as they bloom continuously from June to frost.



New Cuthbertson

Heat Resistant

Sweet Peas for Late Spring and Early Summer Bloom

This new strain, developed by Frank G. Cuthbertson combines an ability to grow and bloom under adverse weather conditions, with exceptional vigor, length of stem and abundance of fragrant blossoms.

- 1880 **COLINE.** Sunproof scarlet.
 - 1882 **LOIS.** Clear rose-pink on white ground. Huge waved blossoms.
 - 1884 **TOMMY.** Clear medium blue.
 - 1889 **CUTHBERTSON MIXED.** Brilliant well-balanced blend of above colors plus many new shades not yet introduced. Color Photo on Front Cover.
- Your choice, any of the above,
pkt. 20c; 3 pkts. for 50c

Viola Tufted Pansy (Perennial)

Closely related to pansies and violets. Violas make splendid edging plants for the border and rock garden. They are hardy and bloom continuously. See illustration below.

- 1919 **FINEST MIXED.** Includes lavender, orange, purple, blue and yellow....Pkt. 15c



Violas—bloom from spring until frost.

Viscaria Rock Lynchnis (Annual)

- 1921 **DWARF FINEST MIXED.** 1 ft. One of the most beautiful of our hardy annuals and one of the easiest to grow. Compact, bushy little plants, completely covered with dainty flowers resembling wild roses. The colors are fresh and brilliant. Viscaria is bright and effective for edging, pot culture and cutting....Pkt. 15c; 2 pkts. for 25c

Wild Cucumber (Annual Climber)

- 1925 **ECHINOCYSTIS LOBATA.** 20 ft. Grows rapidly and is thickly dotted with pretty white, fragrant flowers, followed by ornamental seed pods....Oz. 25c; pkt. 10c

Mexican Zinnia

(DOUBLE HAAGEANA) MEXICAN HYBRID

This dainty little Zinnia should be in every garden. Arranged in low bowls for table decoration it makes the daintiest and most attractive bouquets imaginable. Also a splendid rock garden and border plant.

- 1979 **MIXED COLORS.** Flowers are double and semi-double. 1½ inches across, and come in a most unusual color range—rose-tipped yellow, maroon-tipped cream, yellow-tipped red. Plants grow 10 to 15 inches high.

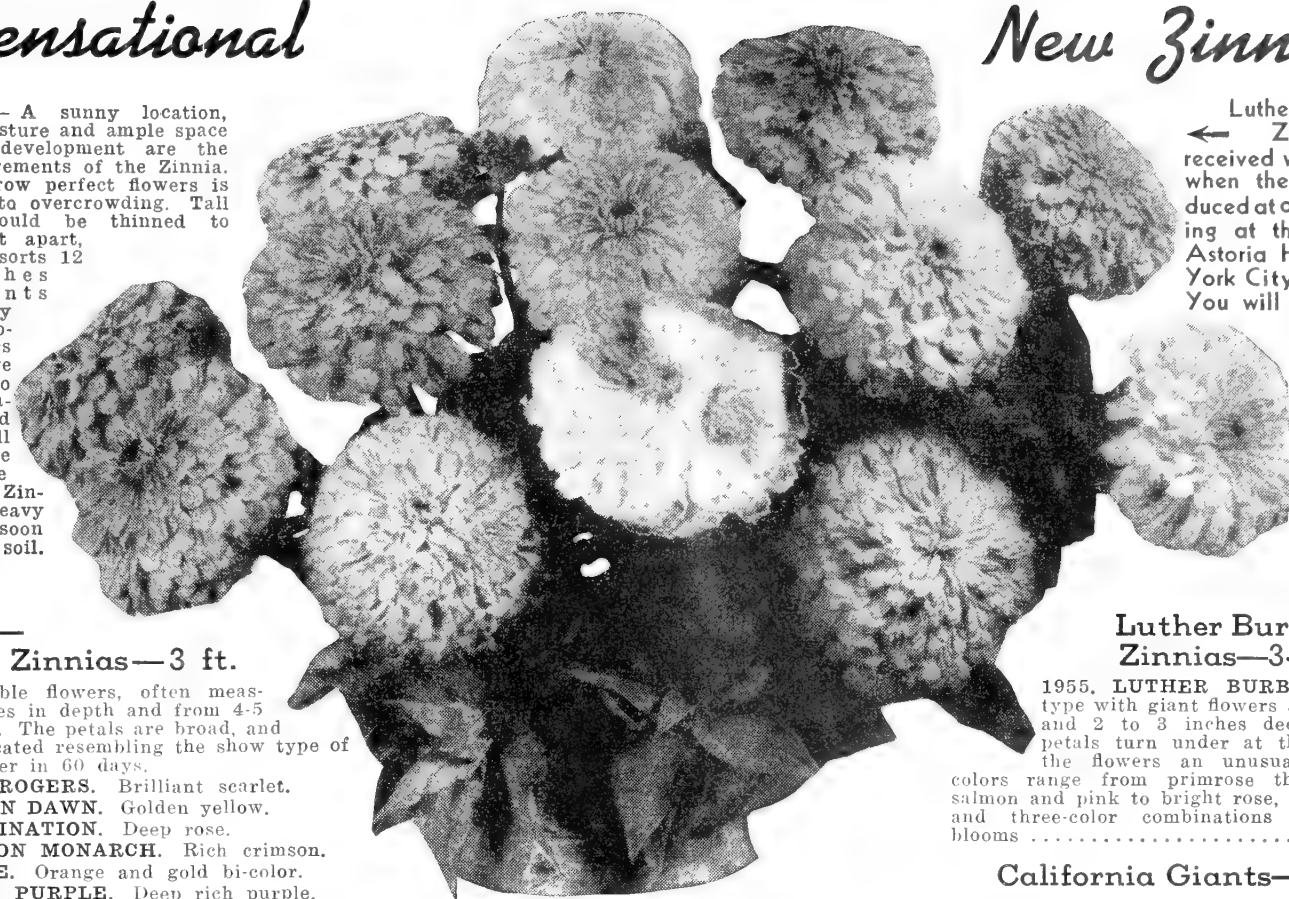
Pkt. 10c; 3 pkts. for 25c.

A row of 1909 New Bush Verbena makes an even, uniform border closely covered with large salmon-pink flowers.

Sensational

New Zinnias

CULTURE — A sunny location, plenty of moisture and ample space for proper development are the simple requirements of the Zinnia. Failure to grow perfect flowers is usually due to overcrowding. Tall varieties should be thinned to stand 2 feet apart, and smaller sorts 12 to 14 inches apart. Plants properly spaced produce flowers that are large and true to type. Applications of liquid manure will improve the size of the blooms as Zinnias are heavy feeders and soon exhaust the soil.



Luther Burbank
← Zinnias
received wide publicity when they were introduced at a special showing at the Waldorf-Astoria Hotel in New York City last summer. You will want to grow them in your own garden this coming year, so send your order in at once as the seed is still very scarce.

Giant Dahlia— Flowered Zinnias—3 ft.

Huge, double flowers, often measuring 4 inches in depth and from 4-5 inches across. The petals are broad, and closely imbricated resembling the show type of Dahlia. Flower in 60 days.
1931 WILL ROGERS. Brilliant scarlet.
1932 GOLDEN DAWN. Golden yellow.
1933 ILLUMINATION. Deep rose.
1934 CRIMSON MONARCH. Rich crimson.
1935 ORIOLE. Orange and gold bi-color.
1936 ROYAL PURPLE. Deep rich purple.
1938 ELDORADO. Salmon-apricot.
Any of above, pkt. 15c, 4 pkts. for 50c

1940 GIANT DAHLIA FLOWERED MIXED.....¼ oz. 60c, pkt. 15c



Mexican Zinnias—See Page 58

Giants of a New Race

1945 DAVID BURPEE. 4 ft. Giant flowers with attractively curled and quilled chrysanthemum-like petals. The color range is unusual, and includes cream, buff, rose, apricot, burnt orange, and some two-toned.....Pkt. 15c

Giant Crested Zinnias

1948 GIANT CRESTED. 3 ft. The flowers are 4-5 inches across, with full, rounded, cushion centers, surrounded by broad guard petals. The colors are bright and fresh and come in shades of rose, yellow, orange and crimson....Pkt. 15c

Super Crown O'Gold

1950 CROWN O'GOLD is a new form of Zinnia—a variation of the Giant Dahlia Flowered type. Its claim to distinction is the golden yellow touch at the base of each petal of the large flowers. Pastel Tints include shades of yellow, old gold, peach, pink and salmon.Pkt. 15c

Giant ZINNIA COLLECTION

One Pkt. Each	{ Dahlia Flowered Mixed Super Crown O'Gold California Giant Mixed David Burpee	50c
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Luther Burbank Zinnias—3-4 ft.

1955. LUTHER BURBANK. A new type with giant flowers 5 inches across and 2 to 3 inches deep. Individual petals turn under at the end, giving the flowers an unusual effect. The colors range from primrose through yellow, salmon and pink to bright rose, with some two and three-color combinations in individual bloomsPkt. 20c

California Giants—3-4 ft.

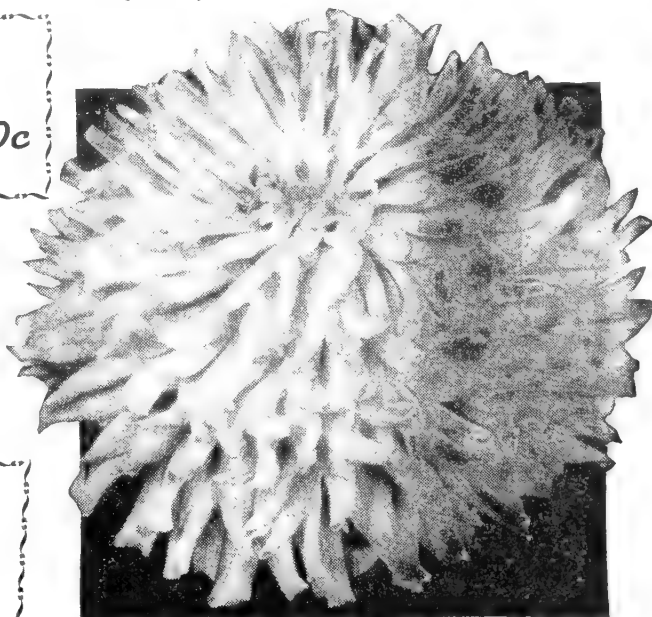
Very large double flowers, averaging 5-6 inches in diameter. Somewhat flat in form, the flowers have a most graceful appearance and are splendid for cutting. Bloom in 60 days.

1960 GRENADIER. Extra fine dark red.
1961 MISS WILLMOTT. Soft, rich pink.
1962 LAVENDER GEM. Clear lavender.
1963 ROSE QUEEN. Rose with deep rose-center.
1964 LEMON QUEEN. Petals canary yellow on upper and cerise on lower side. Fragrant.

Any of above, pkt. 15c, 4 pkts. for 50c
1965 CALIFORNIA GIANT MIXED.
.....¼ oz. 60c, pkt. 15c

Fantasy, a Cactus Petaled Zinnia

1970 FANTASY. 2½-3 ft. The strikingly attractive, shaggy-petaled flowers resemble cactus dahlias. The color range includes the brightest shades of red, yellow and orange, as well as pastel pinks and cream.....Pkt. 15c



David Burpee, the New Giant Zinnia

Dwarf Zinnias for Borders & Bedding

Zinnia Linearis

1971 LINEARIS. 10 in. Deep golden-orange, single flowers with a narrow light yellow stripe through the center of each petal. Early flowering.....Pkt. 15c

Pompon or Baby Zinnias

(Lilliput.) Height 1½ ft.

The plants form handsome little bushes, literally covered with tiny, very double flowers. They bloom all summer.

1972 DAINTY GEM. A delicate shade of flesh-pink, with center a bright rose-pink. Exceptionally good for cutting....Pkt. 15c
1973 BLACK RUBY. Rich maroon...Pkt. 10c
1974 VALENCIA. Burnt orange....Pkt. 10c
1975 FINEST MIXED COLORS....Pkt. 10c

1976 RED RIDING HOOD. 15 in. Bushy little plants, covered with miniature double flowers of deep scarlet.¼ oz. 30c, pkt. 10c

1987 TOM THUMB. 1 ft. Smallest of all Zinnias. The tiny double flowers cover the compact plants all summer. Mixed colorsPkt. 15c

Dwarf ZINNIA COLLECTION

One Pkt. Each	{ Zinnia Mexicana Red Riding Hood Zinnia Linearis Tom Thumb	45c
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Rudbeckia is a glorified "Black-eyed Susan." Try them in your garden this year and we know you will be pleased



Permanent PASTURE & Meadow Mixtures

Recommended By Minn. Experiment Station

And How to Sow Them

PASTURE—A Leading Postwar Money Maker

1. PASTURE supplies the best feed at lowest cost, with the least labor.
2. PASTURE produces milk and meat at lowest cost as animals gather their own feed and take advantage of sunshine and open air.
3. PASTURE yields greater net returns than other field crops, yet there's less risk from hail, lodging, plant diseases, etc.
4. PASTURE mixtures of legumes and grasses yield better than either seeded alone. They produce better stands and better variety of forage.
5. Take advantage of the opportunities offered by participating in the State Pasture Improvement Program sponsored by the University of Minnesota. Consult your County Agent for details. Here are the mixtures recommended by the Experiment Station.

SETTING the GRAIN DRILL for Mixtures Containing Brome Grass

Master Mixtures C and D: Setting drill at 3 in pecks of wheat, sows 18 lbs. per acre. Setting drill at 4 (pecks wheat), sows 26 lbs. per acre.

FOR LOW, WET GROUND, TRY:

Reed Canary Grass (where water stands most of year).
Brome Grass, Alsike, or White Clover (where water does not stand long).

Master Mixture A

A Good Producer on Heavy Soils

A profitable long rotation mixture suited for hay first year or two, then for pasture. After second year Bluegrass and White Clover predominate. Well adapted to heavy, productive soils. Does well in southeastern, east central, and northeastern sections of Minnesota and similar regions. Sow 14 lbs. per acre.

Approximate contents:

Med. Red Clover 29% Timothy37%
Alsike Clover...22% Ky. Bluegrass... 5%
White Clover... 7%

See Blue Figure Price List.

Master Mixture C

One Acre Provides for One Cow

An excellent long rotation combination. May be used for hay for a year, and then pastured. Will greatly outyield either Alfalfa or Brome grown alone. Very well suited to northwestern, west central, southwestern Minnesota and similar regions. One acre will provide excellent pasture for one cow, six to seven sheep, or thirty to thirty-five pigs. If soil shows an acid reaction, should be limed before seeding. Sow 18 to 20 lbs. per acre.

Approximate contents:

Alfalfa29% Timothy12%
Brome35% Sweet Clover...24%

See Blue Figure Price List.

Master Mixture D

Does Well on Sandy Type Soils

A very outstanding long rotation mixture, well suited to productive sandy soils. May be used for hay first year, and then for pasture. After first year Alfalfa and Brome will predominate. Well suited to southwestern, west central, central and southeastern Minnesota and similar regions. Only a half acre to one acre will easily support one cow or six to seven sheep. Soils showing an acid reaction should be limed before seeding. Sow 15 lbs. per acre.

Approximate contents:

Alfalfa43% Timothy14%
Brome Grass...43%

See Blue Figure Price List.

Master Mixture E

Economical Short Rotation Mixture

An excellent short rotation combination, inexpensive, well suited for hay or pasture. Adapted to southeastern, east central, and northeastern Minnesota and similar regions. Three-fourths to one and one-fourth acres will carry one cow or six to seven sheep, and one acre will carry twenty to twenty-five pigs. Sow 12 lbs. per acre.

Approximate contents:

Medium Red Clover.....33%
Alsike17% Timothy50%

See Blue Figure Price List.

Master Mixture H

Annual Hog Pasture

An excellent supplementary spring pasture, productive for about six weeks. Should be seeded early. One-half acre will carry one cow or six to seven sheep, or one acre will carry twenty-five to thirty pigs. Prof. Ferrin of Animal Husbandry Division, University of Minnesota, considers this mixture highly profitable. Sow 20 lbs. per acre.

Approximate contents:

Dwarf Essex Rape 40% Oats.....60%

See Blue Figure Price List.

Timothy Alsike Mixture

Permanent, Productive, Profitable

A popular, inexpensive, short rotation mixture that performs well on either low acid soils, or on sandy soils. This mixture produces better than either crop seeded alone. Well adapted in most all sections. Sow 12 lbs. per acre.

Offered in two grades:

Rich grade contains 30-35% Alsike. Standard grade contains 20-25% Alsike.

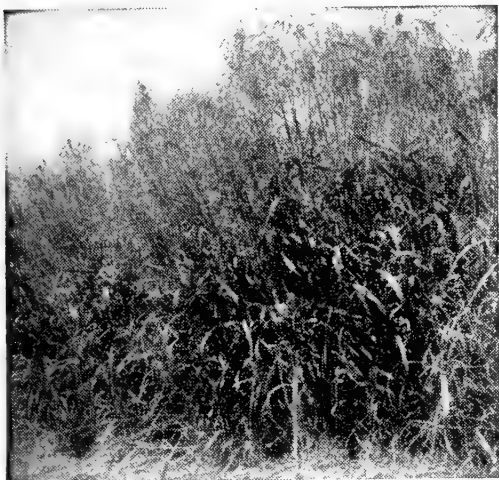
See Blue Figure Price List.

HOW PASTURES PRODUCE THRUOUT SEASON

MIXTURE or SINGLE CROP	May	June	July	Aug.	Sept.	Oct.
Permanent Pasture: Ky. Bluegrass, White Clover						
Master Mixture A " " E						
Master Mixture C " " D						
Reed Canary Grass on low land						
Winter Rye						
Oats or other small grain						
Sudan Grass						
Second-growth Alfalfa						
Master Mixture H Annual Hog Pasture						
Master Timothy & Alsike Mix. (20-25% Alsike) (30-35% Alsike)						

See Blue Figure Price List in Front of Catalog

HARDY GRASSES and How to Sow Them



Brome Grass makes a good hay crop or pasture. Valuable on hillsides, ditches or banks to prevent soil washing.

Brome Grass *Bromus Inermis*

Becoming important as a hardy hay and pasture grass and in combination with other grasses. Also called Smooth Brome Grass.

This vigorous, hardy perennial with strong, creeping roots, makes excellent hay and pasture on poor, dry soil or on moist, low ground that is flooded at times. Valuable on hillsides and terraces to keep soil from washing away. It starts early, two or three weeks before other grasses, remains green until November, and stands close cropping.

It grows two to three feet high, yielding two to four tons of palatable hay per acre. Cut for hay when in full bloom. Also a profitable seed crop.

Seeding with a grain drill is best as seed should be covered. Sow 18 to 20 lbs. per acre in rows six inches apart and $\frac{1}{2}$ to 1 inch deep. To sow 18 lbs. per acre, set drill at "12" (in pecks of wheat), and for 20 lbs., at "12 $\frac{1}{2}$." Extra help is needed to keep seed moving freely through the drill. Price: 5 lbs. \$1.85, postpaid. For larger quantities see Blue Figure Price List.

New Lincoln Brome Grass

* Lincoln Brome Grass was introduced in 1942 by Nebraska Experiment Station. Developed from certain old fields, believed to be from seed of Hungarian origin. The oldest fields were traced to seedings made in 1898. Only fields with suitable history and performance were accepted for foundation seed. Lincoln Brome Grass is a large, aggressive, high-yielding grass which forms a good sod. Because of its size and potential yield, it requires a readily available supply of nitrogen, a limiting factor after several years of growth, and on soils of low fertility. It tolerates drought and heat, has strong seedling vigor, and is easier to establish on critical planting sites than ordinary brome. Seed yields of 500 pounds or more per acre were reported from good soils, and yields of 300 pounds or more, are average.

Central and southern Minnesota tests show Lincoln is easier to establish, has greater persistence, and will produce about 1,000 pounds more forage per acre than Canadian seed of Northern origin. Lincoln was placed on 1946 Recommended List of Minn. Experiment Station. Seed supply limited—order early! Price: 5 lbs. \$2.25, postpaid. See Blue Figure Price List.

Meadow Fescue

This hardy western grass stands more abuse than Timothy and other grasses and will stand close cropping, drought and unfavorable soil conditions. Meadow Fescue grows two to three feet high and produces a very leafy undergrowth. In sowing alone, use 20 to 25 pounds per acre. Price: 5 lbs. \$2.25, postpaid. See Blue Figure Price List.

REED CANARY

(Phalaris)

This Peat and Swamp Land Wonder Grass has reclaimed many worthless swamps and is making real profits for hundreds of farmers. It does well in boggy soils, swamps and marshes.

Four to Six Tons of Hay Per Acre

The hay (of high feeding value) is relished by all livestock. One acre will pasture three to four dairy cows from early spring until fall. Close grazing is best, except in fall. For hay, cut when heads first appear. Then feeding value is highest.

This hardy perennial grass will thrive until broken up, and can be easily controlled by plowing. Seedlings and plants are cold resistant. Heads appear early in June and ripen four weeks later. Plants grow four to six feet high with broad, light green leaves. Underground stems rapidly form a tough sod that holds up hay-making machinery.

How To Grow the Crop

Prepare a good seed bed. Fall plowing allows early spring seeding. The seed will germinate in water, but if covered by soil underneath the water, it will not grow until the water is drained off.

Rate of Seeding

Broadcast 6 to 7 lbs. per acre; drilled, 2 to 3 lbs. per acre in 16 to 18-inch rows. Use a packer on peat after seeding.

Sow early in spring so seedlings become established before weeds start. On weedy

5 Lbs. Reed Canary Grass for \$3.25 Postpaid Quantity Prices on Blue Figure List



After Harvesting Reed Canary Seed, a Hay Crop Can Be Cut Immediately.

land, seed late in June or early July, disking up to this time, to kill weeds. If difficult to get on land in spring, seed in August or October.

Crested Wheat Grass

The Ideal Dry Land Pasture Grass

This hardy drought-resistant perennial bunch grass has a longer productive period than Slender Wheat Grass or Bromus Inermis. Minnesota Experiment Station trials proved Crested Wheat and Brome the two most drought-resistant grasses, and Alfalfa the most drought-resistant legume.

Its extensive root system permits an early and rapid growth. It becomes dormant during extremely hot, dry periods, but resumes growth in early fall, continuing very late. It grows at low temperatures and utilizes the soil moisture to check other grasses and weeds where moisture is limited. In semi-arid regions—Kansas, Nebraska, Montana, Wyoming and the Dakotas, this grass does best although it thrives anywhere. After hard use as sheep pasture, it comes right up again. Crested Wheat Grass produces 400 lbs. of seed per acre under dry conditions on two-year-old fields. Seed is in good demand.

It's Easy to Seed Crested Wheat

Seeding with a grain drill is best as seed should be covered. Sow 10 to 12 lbs. per acre in rows six inches apart, and $\frac{1}{2}$ to $\frac{3}{4}$ inch deep. To sow 10 lbs. per acre, set drill at "2" (in pecks of wheat), and for 12 lbs., set at "2 $\frac{1}{4}$." Well cleaned, heavy seed such as we offer, moves freely through the drill. See Blue Figure List.

Red Top

A hardy perennial grass found almost everywhere, but predominating on low, marshy ground, where it forms luxuriant growth. It grows 2 to 5 feet high, depending on soil and climatic conditions, with creeping roots, which enable it to grow on very wet and even very dry soil where other grasses grow but sparsely. It makes good pasture, and fair hay, if cut early, but the matured plants are wiry and coarse. Grows best with other grasses and clover. Price: 5 lbs. \$2.10, postpaid.

For quantities see Blue Figure Price List.

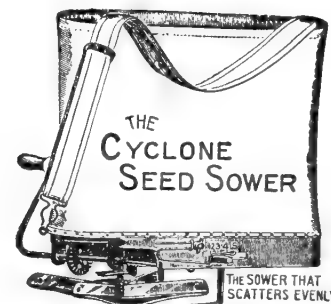
Kentucky Blue Grass

This famous grass does well almost everywhere on soil that is fairly rich, moist and moderately well drained. Blue Grass is the best of all grasses for lawns. Price: 5 lbs. \$2.75, postpaid. See Blue Figure Price List.

Timothy

A hardy perennial resistant to both cold and drought—it is best adapted for sowing with Clovers which supply nitrogen to the soil and increase the vigor of the Timothy. It may also be sown with grains as a nurse crop. The soil must be well pulverized and the seed slightly covered. Do not cut too early or pasture too late in the fall after the hay is cut. Timothy produces 1 $\frac{1}{2}$ to 3 tons of hay per acre and should be cut at flowering time. Sow 15 to 20 pounds per acre alone; with Clover, 10 to 12 pounds per acre. See Blue Figure Price List.

Cyclone Hand Seeder only \$3.50 POSTPAID



This simple, light, strong, hand seeder sows timothy, clover, millet, and grass seeds, as well as flax, wheat, rye, oats, buckwheat, turnips, and fertilizers perfectly even, in any quantity, from one quart to three bushels per acre. Canvas bag holds one-half bushel seed. Shipping weight, 4 pounds. Price: \$3.35, not prepaid.

HARDY NORTHERN GROWN ALFALFA SEED



LOOK FOR THIS TAG
ON EVERY BAG—IT'S
YOUR PROTECTION

We emphasize the importance of knowing where your Alfalfa and other Grass Seeds were grown. Cheaper, unadapted seeds should be avoided because they are more expensive in the long run, and not sufficiently hardy to withstand our northern winters.

Alfalfa Seed obtained from growers or shippers should be identified by the verified origin tags—this is your protection against mixtures, blends and unadapted seed.

As Verified Origin Seedsmen, any Alfalfas that we send you will be sealed and tagged, either with U. S. Verified Origin Certificates, or with certificate seal from the state in which it is grown.

About Hard Seeds:

Hard seeds are live seeds which are slow to absorb moisture and do not sprout within five or six days in a laboratory. There is not much delay in germination of hard alfalfa seeds. After sowing in spring, some germinate in two weeks—others in four, six, or more weeks. Usually all will sprout long before growing season ends. Up to 50% of seeds may be hard without reducing final stand of spring or early summer sown alfalfa, provided over 12 lbs. per acre are seeded. In fact, if properly seeded (not too deep), moderate delays in germination may thicken the stand by the end of season, especially if losses occurred earlier from frost, drought, insects, or other hazards. Thus hard alfalfa seeds have an insurance value, and should not be scarified.

VARIEGATED ALFALFA

From Unregistered Northern Fields

Equal to Registered strains for hardiness and hay production, and offered at a great saving in price.

Variegated Alfalfa is of a well known type with blossoms having a color range of white, yellow and purple. It is highly recommended but no definite records have been kept, and the fields therefore cannot qualify for registration. It has shown itself to be completely hardy in the most severe climates of Minnesota, Dakotas and Montana, and can be recommended as being very desirable for seeding in any part of the northern United States, where winter hardiness is essential. See Blue Figure List.

DAKOTA NO. 12

Dakota or Montana Grown

This is the most commonly grown variety in Minnesota, Dakotas and Montana. It has given the best of results on all types of soil and under all climatic conditions. Our seed stocks come from fields that have been in alfalfa many years and the plants which endure the extremes of hot summers, severe winters and dry, high altitudes are thoroughly hardy. The performance of this variety has made it extremely popular in the Midwest and East. See Blue Figure Price List.

Nebraska Grown

Nebraska alfalfa is classified as hardy northern alfalfa, and commanded the same northern ceiling price as Montana alfalfa. Nebraska alfalfa is recommended by Wisconsin Experiment Station. The U. S. D. A. reports hardy northern common strains, from Nebraska, the Dakotas, and Montana, have produced almost as well as Grimm, and have proved about as cold resistant as Grimm in controlled freezing tests. We offer premium grade Nebraska grown Dakota No. 12 Alfalfa, U. S. Verified Origin. See Blue Figure Price List.



GRIMM ALFALFA

Originated in Carver County, Minnesota. A very hardy, time-tried variety, tested thoroughly throughout the U. S. and Canada. It has many lateral or branching roots which are not found in common alfalfas, and has large spreading crowns. It appears to grow better where there is a hardpan subsoil, than many other varieties. The root system undoubtedly plays a big part in its hardiness, enabling it to withstand soil heaving, freezing and thawing better than varieties having only a single taproot. The blossoms are variegated from white and yellow to deep purple.

Grimm Alfalfa produced in Minnesota, the Dakotas, Montana and Idaho, is known to be very hardy. Montana Grimm is grown in the dryland areas and is able to withstand severe drought as well as cold. See Blue Figure Price List.

LADAK ALFALFA

Wilt and Drought Resistant

Introduced from the mountain regions of northern India by U. S. D. A. Showed no winterkilling for ten years at Havre, Montana. Ladak proved so outstanding that other varieties of alfalfa could not compete with it for winter hardiness.

Ladak is quite resistant to the wilt disease which has been causing such great losses in the hay-producing sections. It produces a larger first cutting than any other alfalfa and this means a larger tonnage per acre under all conditions.

It is particularly well adapted to regions where only one or two crops are produced each year because of short growing seasons or where hot, dry summers prevail. Ladak continues to grow and produces a good crop of hay when other varieties are practically at a standstill. The hay is very leafy and of high feeding value and is of exceptionally high quality.

Ladak has a large branching root system similar to that of Grimm or Cossack. Seed supply very limited.

See Blue Figure Price List. Write for special free circular on Ladak Alfalfa.

COSSACK ALFALFA

Cossack Alfalfa was brought over from Siberia by Prof. Hansen of the South Dakota Experiment Station some years ago. This strain, under observance for five years in Russia, during which time not a single plant winterkilled, was proven to be absolutely hardy.

In recent years, the demand for Cossack has been increasing and there never has been sufficient seed to take care of all requirements.

Cossack Alfalfa produces a somewhat finer hay than many of the other varieties and is equally as hardy as Grimm.

Cossack Alfalfa seems to withstand intense cold, heat and drought equally well. The flowers, like those of Grimm, have a great range of colors, white, purple, yellow, striped, etc. We advise sowing 15 lbs. per acre. See Blue Figure Price List.

RANGER ALFALFA

Wilt & Disease Resistant

Here's the new synthetic variety you have read about. Developed by U. S. D. A. and Nebraska's Experiment Station. The result of compositing five strains from Cossack, Turkestan and Ladak parentage. Ranger has high resistance to bacterial wilt and other diseases. It is winter hardy, and has variegated blossoms, with some yellow flowers. In seed production, Ranger equals Grimm, Cossack and Baltic, and surpasses Turkestan. Ranger is well adapted in northern states, particularly where bacterial wilt reduces stand. Grimm, Ladak or Cossack will yield about as much hay as Ranger where wilt is not troublesome, but Ranger will outyield these varieties wherever wilt becomes a factor. Bacterial wilt is becoming more serious every year in many northern states. Recommended by Minnesota and all other northern Experiment Stations.

About California Certified Seed:

The Minnesota and Wisconsin Experiment Stations, and the U. S. D. A. report that Ranger is such a recent variety, that the amount of natural selection occurring in such a limited time, would not modify the variety. Therefore these authorities agree that the use of California Certified Ranger Alfalfa Seed for northern areas would be entirely satisfactory. Genuine Ranger Seed is extremely scarce. Order early.

Northern Grown Clover Seed



There is much complaint of worn-out soils, weeds and unprofitable crops, from those who once secured bountiful yields when the land was new. Those who have used Clover regularly in the cropping system, have no such complaints. Clovers have beneficial action on the soil and may be seeded with practically all kinds of grains. Clovers also serve as outstanding hay and pasture crops. Clovers have a heavy root system that adds nitrogen to the soil and leaves vegetable matter and fertility when it dies or when plowed under. Clover should be cut for hay as soon as the first blossoms begin to turn brown. This will result in the greatest yield of palatable hay.

MEDIUM RED CLOVER

Medium Red Clover fits better into crop rotations than any other legume. It will increase the yield of succeeding crops, besides furnishing many tons of hay of high protein content. The first crop is usually cut for hay, before it comes into full bloom. The second crop may be cut for hay or seed or turned under, to fertilize the soil.

Red Clover is a biennial which means that it will grow for two seasons only and then must be reseeded. It is adapted to any well drained soil free from acidity and is better for general northwest conditions than any other clover. It furnishes luxuriant pasture and hay for cattle but is not quite so good for horses.

Sow Red Clover at the rate of 10 lbs. per acre with small grain or flax. Use about one-half or two-thirds of a normal seeding of grain or flax so as not to smother the clover. We use a clover seed attachment to the grain drill, sowing the seed ahead of the drills and cover it lightly with a harrow. See Blue Figure Price List.

MAMMOTH RED CLOVER

Extremely hardy, and valuable for fertilizing poor soil which is too low and heavy for growing Red Clover. It makes the best permanent hog pastures, seldom freezing out, and produces a large crop of hay, as much as 3 to 5 tons to the acre. Sow 5 to 6 lbs. per acre, with small grain, for plowing under. For a hay crop, sow 8 to 12 lbs. per acre. Grows on acid soil where Medium Red and Alfalfa fail. Yields again as much as Medium Red Clover, though the hay is rather coarse.

See Blue Figure Price List for Quotations on All Farm Seeds.

ALSIKE CLOVER

Alsike Clover has the same soil-building properties as Red Clover, storing nitrogen in the soil, thereby increasing the yields of succeeding grain and corn crops from 25 to 50%. It is a true hardy perennial, with fiber instead of tap roots, and is not injured by thawing and freezing.

Alsike can be sown on soil that is slightly acid or sour, where lime cannot be applied, and where other clover or alfalfa will not grow. It can be sown on heavy, wet, or low soil that sometimes becomes waterlogged, and also endures drought well.

It makes better hay than Red Clover, because of its fine smooth leafy foliage. Its feeding value is nearly equal to that of alfalfa. It makes fine pasture, as it is extremely hardy.

The seed of Alsike is very fine, therefore, only 7 or 8 pounds per acre are required. As a seed crop, it is often more profitable than Red Clover. It is cut for seed when two-thirds of the heads are ripe.

Alsike Clover has its place in the crop rotation the same as Red Clover and for best results is usually reseeded at the end of two years' growth. See Blue Figure Price List.

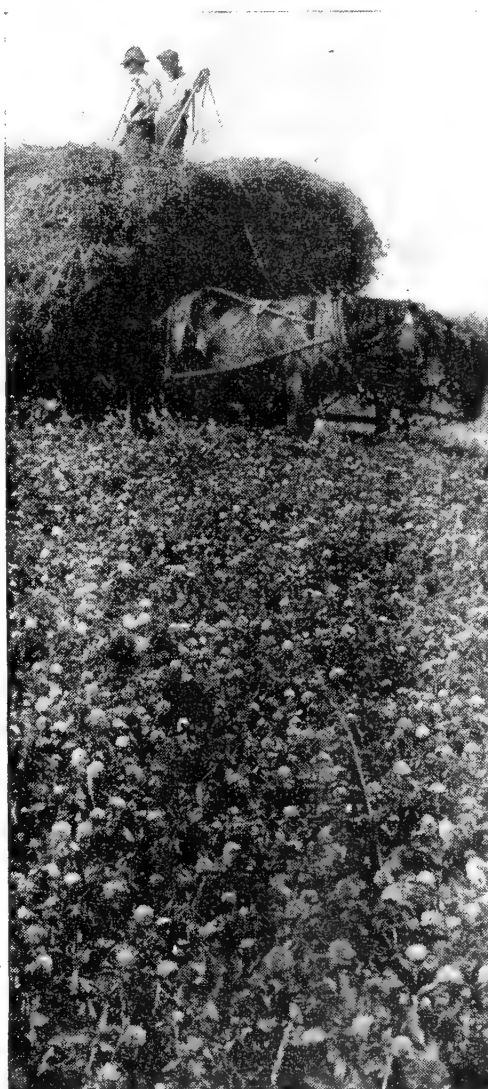
WHITE CLOVER

Best for lawns and pastures. White Clover is sown mostly in mixture with other grasses, especially with Blue Grass, for lawns, golf grounds, also for pastures for sheep and cattle. It thrives best in moist soil containing lime and considerable humus, but is also grown on sandy soil which is not too loose and dry. For lawns sow 5 to 6 lbs. mixed with grass seeds, to the acre. Price: 1/2 lb. 60c, 1 lb. \$1.00, 5 lbs. \$4.75, prepaid. See Blue Figure Price List.

New Disease-Resistant MIDLAND RED CLOVER

Here's the remarkable new red clover that averaged 2 1/2 tons of hay per acre. Ordinary red clover averages 1 1/2 tons per acre. New Midland is well adapted to the winter conditions of the Medium Red Clover Belt—it has proved itself perfectly hardy in the North. Midland has high resistance to Northern Anthracnose and crown rot. These diseases are reducing yields in many sections. Midland has excellent growth characteristics and was accepted for registration by the American Society of Agronomy.

Midland is the result of 13 years of breeding, testing, and increasing by the cooperative efforts of Experiment Stations in Montana, Idaho, Colorado, Washington, Oregon, Utah, Iowa, Illinois, Indiana, and Ohio, and U.S.D.A. It was developed as a composite of four old strains from the Mid-West. See Blue Figure Price List.



Your Money Can Buy No Finer Seed Than Master Farmer Red Clover.

IT'S FREE! Approximately 70,000,000 pounds of air-nitrogen above every acre of legumes! This is available free, for improving your soil and crop, if you will convert legume seeds into fertilizer plants by inoculating seed with Nitragin. (See page 64.)

NEW LADINO CLOVER

You've read about this outstanding new pasture and hay crop in recent magazines. (See Country Gentleman, Sept., 1946.) Ladino clover is a giant form of common white clover. It is a rapid growing perennial which spreads much like strawberries by producing fleshy creeping stems. Short tap roots develop beneath the crowns of the plants, and numerous fibrous roots are commonly produced at the nodes or joints of the creeping stems.

Under favorable conditions a single plant may produce six to ten or more strawberry-like surface runners, which, by the end of the year, form a dense interlocking growth with nearby plants.

Ladino grows 10 to 14 inches tall, but under favorable soil and climatic conditions, plants often grow 15 to 20 inches tall.

Outstanding Advantages:

(1) Ladino is a perennial legume which thrives under some conditions where alfalfa fails, and even where red clover is not at its best. Ladino appears suitable for low, level, moist, fertile fields on which alfalfa is at a disadvantage.

(2) It competes well with, and stimulates the growth of, such grasses as brome, timothy, and orchard grass. Moreover, it can be used successfully in mixtures containing alfalfa and red clover, and helps fill in the gaps when these legumes thin out.

(3) University of Wisconsin tests show that livestock like Ladino even better than brome grass. Chemical analysis show that Ladino on a dry matter basis not only beats all the common forages, but is even better than wheat, bran, or alfalfa meal. When 4 to 5 inches tall, analysis showed 25.6% protein content for Ladino. When more nearly mature, or 10 to 15 inches tall, it still carried 23.4% protein. This compares with 15% protein for good alfalfa hay.

Grasses such as timothy or brome grass, grown with Ladino clover, reduce the danger of bloat, neutralize the excessive succulence and laxative effect of pure stands of Ladino, and aid in mowing and curing as hay.

Furthermore, Ladino clover seeded with grasses, is less likely to be injured from excessive cold or alternate thawing and freezing, than when grown alone.

The following mixtures and seeding rates per acre are suggested:

For fertile, cultivated land with poor surface drainage.

(A) Ladino Clover 1 to 2 pounds
Red Clover 4 pounds
Timothy 4 pounds

(B) Ladino Clover 1 to 2 pounds
Alsike Clover 2 pounds
Timothy 4 pounds

(C) Ladino Clover 2 pounds
Brome Grass 6 to 8 pounds

For well drained fertile soils well supplied with moisture.

(D) Ladino Clover 1 pound
Alfalfa 8 to 10 pounds
Brome Grass 6 to 8 pounds

(E) Ladino Clover 1 pound
Alfalfa 6 to 8 pounds
Red Clover 3 to 4 pounds
Brome Grass 6 to 8 pounds

Plant shallow in a firm, well prepared seed bed just as early in the spring as possible. Companion crops which ripen early—seeded at moderate rates—may be used without much danger to the new seedlings.

While Ladino Clover is an excellent source of high quality protein hay and silage, its greatest value undoubtedly is as pasture. The succulent, highly nutritious forage which it produces, is exceedingly palatable at all stages of growth, to all classes of livestock. Best production is obtained (and the life of established stands is prolonged) when Ladino Clover is permitted to make a good growth, and then is grazed down to a height of 4 to 5 inches. Close and continuous grazing should be avoided.

Seed of Ladino Clover cannot be distinguished from common white clover. Insist on our fine quality, pure stocks of Oregon Blue Tag Certified Ladino. Per acre seed costs are economical at the low seeding rates. See Blue Figure List.

Sweet Clover

Enrich Your Land—Make Cheap Hay

Sweet Clover cannot be surpassed for soil improvement due to its rapidity of growth, large tonnage produced and its comparatively low seed cost.

Sweet Clover as a Hay or Pasture Crop

Sweet Clover is a leading crop in the United States. As a biennial legume, it fits in with any crop rotation, besides yielding a very large return of hay and pasture. Sweet Clover may grow one to three feet the first season and may be clipped for hay or pastured lightly if it makes a good growth. During the second year it grows very dense and rapidly and if cut for hay, it should be done early in the season, before the blossoms appear and the stems become woody.

Cut Sweet Clover six to eight inches above the ground. Allow the hay to wilt a few hours, then place in small cocks until it is dry enough to stack. One acre furnishes pasture for two to four cows throughout the season. Cattle rarely bloat on it.

As a Soil Builder and Weed Control

Sweet Clover grows on clay, sandy, alkaline, or gumbo soil. It prevents drifting of shifting sandy soils. The hardpan subsoil is loosened by the heavy penetrating roots, allowing the necessary aeration and depositing large quantities of humus and nitrogen. Sweet Clover is a rank, dense grower of great value in exterminating weeds such as quack grass, thistle, etc.

Use 15 lbs. of scarified seed per acre with a nurse crop of one-half the usual seeding of grain or 28 to 35 lbs. of flax per acre. Firm the seed bed well after planting. Inoculate with Nitragin.



New Madrid Biennial Sweet Clover

Madrid is a variety of Yellow Blossom Sweet Clover introduced from Madrid Botanical Gardens, in Spain.

Madrid, is biennial in growth and yellow flowered. When compared with other varieties and strains of Yellow Blossom Sweet Clover, Madrid's first year's growth shows exceptional early seedling vigor, medium height but somewhat decumbent, with foliage resistant to fall frost. The second year's growth is leafy, upright, of medium height, and slightly later in maturity. Seed production is heavy and of sufficient earliness to escape the hazard of drought, common during the summer months in the Great Plains. Extensive yield trials show significantly greater yields of both hay and pasture than either common biennial yellow or white sweet clover. Seed is scarce, so order early. Accepted for Registration by the American Society of Agronomy in 1943. See Blue Figure Price List.

Common Biennial Sweet Clovers

Because white and yellow blossom Sweet Clover Seed has become so mixed in seed production areas, it is impossible to offer straight White Blossom or pure Yellow Blossom Sweet Clover Seed and still meet requirements of the Federal Seed Act.

Therefore, all sweet clover will be sold merely as Biennial Sweet Clover. However, in ordering, if you will state your preference of either White or Yellow, we will do our best to select lots which will come as close to your preference as possible. In other words, if you prefer White Blossom, the seed will probably be from 50% to 75% White, and the balance Yellow Blossom. See Blue Figure Price List.

Characteristics of Biennial Types

Yellow Blossom: A more prostrate, lower growing type, about two weeks earlier than white blossom and adapted to drier areas.

Tall, White Blossom: Tall growing and productive. Has a two weeks' longer pasture season than yellow blossom.

Dwarf White Blossom: This seed consists of approximately 75% Grundy County Sweet Clover, the dwarf white biennial type preferred by many. Its shorter growth, its finer stems with more leaves, makes better hay. It matures earlier, so hay can be cut before small grain harvest. The hay cures more rapidly and is very palatable. It produces seed earlier, well ahead of early frosts. It makes excellent pasture, but it does not last as long as the tall variety.

Hubam Annual Clover

An annual, white, resembling the biennial white in appearance, but making no resting buds, and producing seed the season of sowing. When a catch crop is wanted, especially when the field is to be Fall plowed, it is useful.

RAPE FOR QUICK PASTURE

Rape is an annual forage plant of great value, profitable in all sections of the country. It can be grown to advantage on land which has already produced an early grain crop, like oats, rye, or winter wheat.

Rape provides excellent pasture for all kinds of livestock, cattle, hogs, and sheep. It can be sown at any time during spring or summer, so a good pasture can be had whenever it is needed. Rape will prepare sheep and hogs for market better and in less time than any other forage plant.

One acre is sufficient to pasture 12 to 15 sheep from six weeks to two months, and is the ideal pasture for weaning lambs. Spring pigs can easily be brought up to 200 lbs. in weight when six months old, if fed on rape. It is a mild succulent feed for cattle, and will not flavor the milk, if the cattle are pastured properly. Stock that is being fed on rape should always have access to salt.

Two pieces of land may be seeded at once, to be used alternately, pasturing one while the other is growing. Do not graze too closely. Rape makes a good fall pasture.

Advantages in Sowing Rape

1. Grows wherever corn or turnips grow.
2. Provides pasture in 6 to 8 weeks' time.
3. The best forage plant for dry seasons, because of its strong, deep root system.
4. Plant alone or with grain, soy beans, Sudan Grass or cane.
5. Adds humus matter to soil when plowed under.
6. Its cheapness; sown broadcast, use 5 or 6 lbs., sown in rows, use only 3 lbs. per acre.

DWARF ESSEX RAPE—The commonly grown type that has produced the finest pastures for many years. Price: 5 lbs. \$1.75, postpaid. See Blue Figure Price List.

INOCULATE YOUR LEGUME SEEDS

Alfalfa
Clovers
Soy Beans



Vetches
Peas
Beans

BUILD UP YOUR SOIL Inoculate Your Legumes With NITRAGIN

Inoculate your Legume seeds even though planted on fields that have been inoculated before. Field tests have shown that better crops are harvested when Legume seeds are inoculated even when planted on fields where inoculated seeds of the same Legume crops had grown the previous year.

1948 NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

ALFALFA
Sweet, Bur, Hubam Clovers
Size Retail
1 bu. ea.\$.50
2½ bu. ea. 1.00

CLOVERS
Red, Alsike, Crimson, White and Ladino
1 bu. ea.\$.50
2½ bu. ea. 1.00

PEAS (All Varieties)
VETCHES (All Varieties)

100 lb. size (Inoculates up to 100 lbs.) ea.\$.50
1200 lb. size ea. 5.70 (12-100 lb. size cans)

BEANS—Navy, Pinto, Wax, String, Kidney, Gr. Northern
1 bu. ea.\$.35

LESPEDEZA—Hulled or Unhulled
100 lb. size (Inoculates up to 100 lbs. seed)\$.50

PEANUTS, COW PEAS
Size Retail
Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. ea.55
25 bu. (one can) ea. 2.50
30 bu. (one ctn.) ea. 3.25 (Contains 6-5 bu. cans)

SOYBEANS (All Varieties, Including Edible)
Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. ea.55
25 bu. (one can) ea. 2.50
30 bu. (one ctn.) ea. 3.25 (Contains 6-5 bu. cans)

LUPINES (All Varieties)
100 lb. size (Inoculates up to 100 lbs. seed)\$.50

GARDEN SEED
Garden Peas and Beans Sweet Peas, Lupines and Edible Soybeans
Enough for 8 lbs. seed
Retail Price 10c each.

NITRAGIN—Oldest and Most Widely Used Inoculator in America

Extra Profit From Grain Crops

Treat your Seed with Ceresan!



Six to 18% bigger yields of grain crops obtained when seed wheat, oats, and barley were treated with Improved Ceresan!

Boost your yields—improve stand and quality by this simple dust treatment which costs but a few cents an acre (2½ cents to treat a bushel of seed grain or flax.)

It's easy to apply with a home-made treater or by the simple shovel method. Measuring spoon included in each can. Improved Ceresan is a dry powder—no wet and swollen grain to handle—does not affect planting rate or cause trouble in the drill. Can be applied to well-cured seed 6 months before planting if desired.

½ Ounce Treats One Bushel of Grains, Millets and Flax.

IMPROVED CERESAN PRICES:

1-lb. Can (Treats 32 Bu.) Postpaid.....85c
4-lb. Can (Treats 128 Bu.) Nppd.....\$2.70
8-lb. Can (Treats 256 Bu.) Nppd..... 5.40

NEW & BETTER SEED GRAINS for the NORTH



**WANTED:
More Flax!**

\$6 Support Price Again in 1948!

The government again requests record flax production. The goal for Minnesota farmers alone is nearly 1½ million acres! To insure this production, a support price of \$6.00 per bushel has again been specified for the 1948 crop. This is well over three times the pre-war price.

Tests Show Flax Easy on Land

Contrary to opinions of many farmers, flax does not deplete the soil as much as other small grains, according to a recent report from the U. S. Flax Institute. Tests by T. E. Stoa of North Dakota's Experiment Station, show:

Crop	Bushel Yield per Acre	Pounds of Nitrogen Withdrawn per Acre	Pounds of Phosphorus Withdrawn per Acre
WHEAT	20	36	4.88
OATS	47	38.5	5.1
BARLEY	30	35.3	5.9
FLAX	11.1	29.6	3.5

**About
the risk of
↓ growing
flax.**

The U. S. Dept. of Agriculture reports that flax is no more risky to grow than wheat or other grain. In fact, wheat yields have varied more than flax from year to year in Minnesota and North Dakota.

New Flax Varieties

To obtain large crops, sow early right after grains are planted. The earlier that Flax is sown, the better able the plant will be to withstand wilt and other diseases. Treat seed with Ceresan—Page 64. Sow 3 to 4 pecks per acre.

NEW MINERVA FLAX

The new yellow-seeded flax developed by Minnesota's Experiment Station. Minerva's outstanding features are its high yields and its extra high oil content, which makes it most desirable to the crushers. It has exceeded all other varieties in percentage of oil content, and the oil quality is similar to that of Red Wing. It shows fair resistance to rust and pasmo, but has shown some susceptibility to late wilt at University Farm, although it is much more resistant at Fargo. However, Minerva is recommended for all sections of Minnesota and similar areas because of its fine all-round performance. Seed is scarce. See Blue Figure Price List.

NEW DAKOTA FLAX

This new flax from North Dakota's Agricultural College has proved one of the highest yielding varieties in most all flax growing sections. It appears well adapted in a wide range of environments. In official Minnesota trials (3-year average), Dakota yielded 19.6 bu. per acre; Koto, 19.0 bu., and Minerva, 17.9 bu. Official North Dakota trials—Dakota, 23.2 bu.; Bison, 11.1 bu.; Koto, 19.4 bu.

Dakota is midseason in maturity. Plants are of medium height, have strong straw, and have proved resistant to rust and wilt, with moderate resistance to pasmo. Seeds are brown and slightly smaller than Bison. Oil content and quality, equal to Red Wing. Recommended by Minnesota and North Dakota Agricultural Colleges. See Blue Figure Price List.

NEW KOTO FLAX

A new, high-yielding variety, mid-late in maturity, and resistant to wilt. Distinguished from Redwing and Biwing by its dark-blue flowers. Seed size, oil content and quality are very similar to Biwing. Koto is not pure for resistance to rust but has not been injured appreciably under the rust conditions that damaged Bison severely the past two years. A selection from a cross of (Russian x Argentine) x Bison, at the Mandan, North Dakota Station. Koto appears well adapted to all sections of Minnesota and similar territories. See Blue Figure Price List.

Winter Grains

We expect to have available, in time for fall seeding:

WINTER WHEAT; Marmin
WINTER RYE; Imperial Wis. 6

Write For Prices in August.

GET EXTRA PROFITS—

By treating all Seed Grains with Ceresan.
See opposite page (page 64) for details!

Spring Wheat

NEW MIDA WHEAT

A new bearded, early maturing spring wheat with medium straw strength. Moderately resistant to leaf and stem rust and bunt, susceptible to loose smut, and moderately susceptible to scab. It has a high test weight per bushel and equals Thatcher in milling and baking characters except that it gives lower loaf volume. In 3 year tests (1941 to 1943) in North Dakota, Minnesota, South Dakota, and Montana, it outyielded Thatcher by 13.8%. Mida was developed from Ceres-Hope-Florence parentage by North Dakota Experiment Station. In 1945 U.S.D.A. trials, Mida averaged 29.5 bushels per acre, the highest yielding wheat at all 24 Regional Stations. Recommended by Minnesota Experiment Station and Northwest Crop Improvement Ass'n. See Blue Figure Price List.

RIVAL WHEAT

Rival is the result of a Ceres X (Hope-Florence) cross at the North Dakota Station. It's a bearded, mid-season, high-yielding hard red spring wheat. Plant is mid-tall and kernels are quite large. It is moderately resistant to stem and leaf rust. It is resistant to bunt and loose smut, moderately susceptible to scab, and susceptible to black chaff. Rival has a higher bushel weight than Thatcher and appears equal in milling and baking quality. Recommended for southern Minnesota because it is less susceptible to scab than other varieties. Recommended by Northwest Crop Improvement Association, and Minnesota Experiment Station.

Buckwheat

Generally the best grain crop for poor, thin land. Does best in moist, cool climates. Seed at the rate of 3 or 4 pecks per acre, late in the season when all danger of frost is past. Matures a crop in only 10 to 12 weeks. An excellent catch crop when seeded after canning peas or winter wheat have been removed. Yields vary from 15 to 30 bushels per acre. Buckwheat is an excellent weed eradicator, as its quick, vigorous growth offers severe competition to weeds.

Because the varieties Japanese and Silver Hull have become mixed, we offer seed merely as "Buckwheat." In fact, many growers consider it best to mix half and half seed of Silver Hull and Japanese varieties for sowing. The plants have somewhat different habits of growth, the Japanese generally growing taller and branching less than Silver Hull. Thus, when grown together, the two may occupy the land to better advantage. These varieties often have crossed among themselves, resulting in considerable mixtures of the varieties and of their hybrids anyway. See Blue Figure Price List.



The Best in Malting Barleys

NEW MONTCALM BARLEY

The new malting barley from Canada described in recent magazines and farm papers. Montcalm gained considerable fame when these yield trials at Fargo were published recently: North Dakota Agricultural

College Tests:	1945	1946
NEW MONTCALM	69.4 bu.	50.3 bu.
'L' or Kindred	59.1 bu.	39.7 bu.
Wisconsin 38	62.7 bu.	38.6 bu.
Manchuria	60.9 bu.	37.8 bu.
Mars (feed barley)	60.9 bu.	37.2 bu.

New Montcalm outyielded 'L' barley by 10.6 bushels, and Wisconsin 38 barley by 11.7 bushels per acre in 1946. It tested highest of all in Canadian malting tests. Montcalm matures somewhat earlier than Wisconsin 38, is six-rowed, smooth bearded, and has stronger straw than 'L' barley and Wisconsin 38. It is reported to be equal to other malting varieties in disease resistance but is somewhat susceptible to loose smut and stem rust and it pearls blue. In spite of these faults, Montcalm is profitable because of its high yield and its ability to qualify as a malting variety. Seed scarce. See Blue Figure Price List.

NEW "L" BARLEY

Resistant to Stem Rust

New 'L' or Kindred Barley was discovered as a single plant in a field of Wis. 37 Barley near Kindred, North Dakota. This entire field of barley was being plowed under because of a poor crop due to severe stem-rust damage, when this single plant, entirely free from rust, was noticed. Seed was saved and increased until it is now available to Northwest farmers.

It matures 3 days earlier than Wisconsin 38. 'L' has an outstanding yield record, is not as subject to blight and foot rots as Wisconsin 38, and is recommended by Minnesota's Experiment Station. 'L' Barley is a 6-rowed, rough awned variety of white aleurone. It's very high in yield, with good test weight and satisfactory malting quality. It has high resistance to stem rust, but only moderate resistance to lodging. See Blue Figure Price List.

WISCONSIN BARBLESS (WIS. 38)

Developed by Wisconsin's Experiment Station from a cross of Lion X Oderbrucker. It is a smooth awned, six rowed, white aleurone variety, with high yielding ability. Barbless is resistant to barley stripe, moderately susceptible to spot blotch, and susceptible to scab, loose smut, and stem and leaf rusts. It has moderately stiff straw. It is an excellent malting variety. Approved by American Society of Agronomy in 1940. Recommended by Minnesota's Experiment Station. See Blue Figure Price List.

"Seeding Wheat, Oats & Barley In Combination"

We offer a Free Bulletin telling what varieties of small grains mature at the same time and can be satisfactorily grown together. Write for it.

Good Seed Grains, When Treated with Ceresan, Produce Larger Yields. See Page 64. Page 65

THE NEW DISEASE-RESISTANT SEED OATS

BONDA OATS

Stands well on thin soils . . . lots of straw . . . heavy kernels

Bonda yields about the same as Vicland, but it grows about four inches taller than Vicland, which is an advantage where more straw tonnage is wanted. Bonda is also slightly superior to Vicland in standing ability, especially on thinner soils. The kernels of Bonda are yellowish white, and they average about two pounds per bushel heavier than Vicland. Under normal conditions it matures a day or two later than Vicland.

The weight of an individual kernel of Bonda is about 20% greater than Vicland and 30% greater than Gopher. For this reason, Bonda should be seeded somewhat heavier than other varieties on sandy soils.

Bonda is resistant to crown rust; to stem rust, including race 8 (to which Tama and Vicland are susceptible); to the smuts; and to the New Helminthosporium blight disease.

Bonda was selected from a cross between Bond and Anthony at Minnesota's Experiment Station, and has been thoroughly tested in yield trials. See Blue Figure Price List.

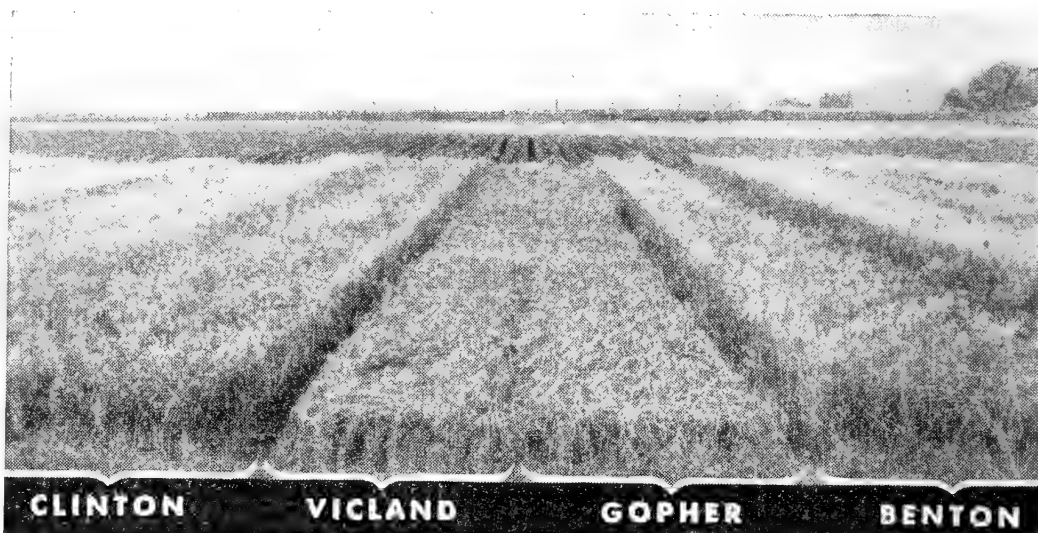
MINDO OATS

Resists lodging on heavy soils

Mindo is a very early, open-panicked, yellowish variety which has yielded on the average about the same as Tama and Vicland. Mindo is superior to Vicland in its ability to withstand lodging on heavy soils. It grows about the same height as Vicland and is somewhat superior to Vicland in weight per bushel. It is also a day or two earlier in heading. Its kernel size is about the same as Vicland.

Like Bonda, Mindo is resistant to stem rust, including race 8 (to which Tama and Vicland are susceptible); to crown rust; to the smuts; and to the new Helminthosporium blight disease.

Mindo was selected at the Minnesota Experiment Station from a cross between Bond and [(Minota x White Russian) x Black Mesdag]. See Blue Figure Price List.



Clinton and Benton standing mostly unbroken besides badly broken Gopher and Vicland seven days after the grain was dry enough for combining.

CLINTON OATS

A good variety for heavy soils where lodging has been troublesome

Clinton is a high-yielding, stiff-strawed, mid-tall variety with large, plump, yellow kernels and relatively thin hulls. It is usually one or two days later in ripening than Tama, and one or two inches taller; but not quite as uniform in ripening and in height. It has given significantly higher yields than Tama, Vicland, Boone, and Marion, just as these varieties out-yielded all those previously available.

Clinton is also more resistant to lodging. It is nearly immune to crown rust and to races 8 and 10 of stem rust, which reduces yields of other oats. It's also resistant to loose smut and covered smut; to the leaf spot disease which affects most recent varieties; and to the new Helminthosporium blight disease.

Clinton was developed by Iowa's Experiment Station and U.S.D.A., from a cross between variety D69 (Richland x Green Russian) and Bond. Recommended by Minnesota's Experiment Station. See Blue Figure Price List.

BENTON OATS

A taller variety . . . well adapted to thinner soils

Benton is about one day earlier, and yields have proved equal to Clinton. The kernels are yellow, occasionally tinged with brown, and their test weight slightly exceeds that of Clinton.

Benton is about five inches taller than Clinton, so it is a good choice where more straw tonnage is wanted. The plant height is very uniform. It is better adapted to thinner soils than the shorter varieties.

Like Clinton, Benton is more resistant to lodging than other varieties available in the corn belt. It is nearly immune to crown rust, and to races 8 and 10 of stem rust, which severely affects other varieties. It's also resistant to loose smuts and covered smuts; to leaf spot diseases which proved so troublesome for older varieties, and to the new Helminthosporium blight disease.

Benton was developed by Iowa's Experiment Station and the U.S.D.A. as a selection from the cross between D69 (Richland x Green Russian) and Bond. See Blue Figure Price List.

Compare the Features of these Oats

ADAPTATION OF VARIETIES

Clinton and Mindo grow to medium height and are well adapted to rich soils where lodging has been troublesome.

Benton and Bonda will prove popular where considerably taller straw than produced by Tama and Vicland, is wanted and where more straw tonnage is required on the farm. These varieties should excel in dry seasons, and appear much better adapted on thinner soils, than the shorter varieties.

EXCELLENT STANDING ABILITY

U. S. D. A. tests showed the following lodging percentages: Clinton, 6%; Benton, 9.3%; Mindo, 11.9%; Bonda, 23.6%; Vicland, 43.1%; Gopher, 74.1%. Normally these new varieties may be expected to stand well for a period of 7 to 10 days after grain is first dry enough for safe storage.

The high test weight per measured bushel, and the low percentage of hull, make it important to harvest and store the grain at less than 14% moisture. A moisture test is the only safe guide.

SEEDING RATES

Indiana tests show that maximum yields can be obtained at rates of 2 to 2½ bushels per acre. Many farmers desire to seed 3 bushels per acre, as the drill operates by weight rather than by measure.

Compare the Performance of these Oats

MINNESOTA EXPERIMENT STATION TRIALS

(Average of All Stations—1945-1946)

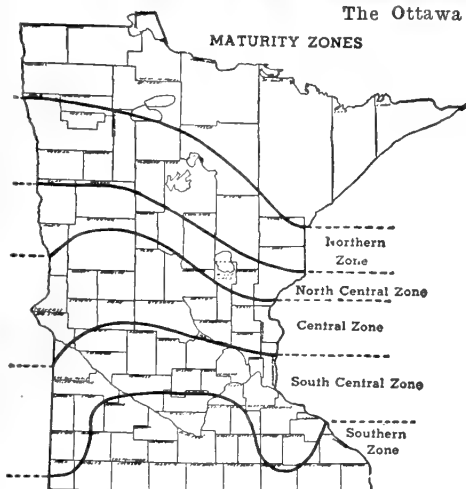
VARIETY	YIELD (Bu. per Acre)	PLANT HEIGHT (Inches)	WEIGHT (Per Bu.)	WEIGHT 200 Seeds Grams	PERCENT HULL
Clinton	88.6	37	35.9	4.8	25.1
Bonda	88.0	40	37.1	6.0	26.7
Mindo	86.7	35	35.0	5.0	27.6
Vicland	77.3	33	32.8	4.6	28.8

INDIANA EXPERIMENT STATION TRIALS

VARIETY	YIELD (Bushels per Acre)	PLANT HEIGHT (Inches)	DATE RIPE (July)	BUSHEL WEIGHT	1000 KERNEL WEIGHT	PERCENT GROATS (Meats)
Benton	76.7	38.5	12	35.8	26.3	76.6
Clinton	76.2	33.5	13	35.1	24.5	75.4
Tama	63.8	...	...	...	...	...
Boone	59.7	...	...	...	...	...
Vicland	...	32.6	10	32.6	22.7	70.6



The Ottawa Strain of Mandarin—a most profitable crop for Minnesota farms.



How To Grow Good Crops of Soy Beans

CULTURE. Soy Beans require about the same treatment as corn, and will grow on almost any kind of soil, shallow peat or sandy loam, and even ground containing too much alkali for corn. Do not plant Soy Beans too early, about corn planting time is right.

Inoculate seed with Nitragin (below) and plant as follows:

1. In ordinary 6 in. rows with a grain drill, using 90 to 120 lbs. of beans per acre.
2. In 12 in. rows, using a grain drill and plugging up every other drill, using 80 to 90 lbs. per acre.
3. In 21 in. rows, using a corn planter with a bean attachment, the planter being set at the regular distance of 42 in. and the rows straddled. Plant about 70 to 75 lbs. of beans per acre.

4. Soy Beans may also be planted in rows 30, 36 and 42 in. apart and cultivated. Plant 35 to 45 lbs. of beans per acre.
5. Soy Beans may also be broadcast, using about 90 to 120 lbs. per acre.

Soy Beans for Seed

The seed crop is quite profitable. The seeds broken or split in threshing can be fed to livestock. For seed, the Soy Beans should be cut with a grain binder, while the dew is still on them, so they will not shatter. They can be threshed without much curing, if the seed is spread out so it cannot sprout in the bins.

Soy Beans may be turned under in the fall, thereby enriching the soil and making it mellow and easily tillable.

Plant High Germinating Seed!

Recent University of Minnesota studies have shown that improper storage of soy beans causes "heating" and also injurious molds, which result in poor germination and weak seedlings. If beans have been stored when high in moisture, or where air is moist and circulation poor, the result is often "heating" of the beans, rendering them useless for seed.

Don't take chances on seed. It's the foundation for your crop. Insist on the highest quality seed stocks, and government recommended, early varieties, that are safe for your section and suited to early combine harvesting in Minnesota. Our seed stocks have been carefully tested to insure low moisture content before storage, and are then tested for high germination.

Profitable Soy Bean Varieties for the North

HABARO

Developed at University Farm. Habaro's 28 to 35 inch plants are highly resistant to lodging. Seed and hay yields run about as high as any variety tested at the Waseca Station. Recommended for seed and hay production in Minnesota's Southern Zone, South Central Zone and the southernmost two-thirds of Central Zone. 1946 U.S.D.A. data on 3 years testing shows Habaro averaged 27.9 bushels per acre yield, ranked first in protein content with 43.3%, oil content 18.6%, and iodine number of oil 133. Recommended by Minnesota Experiment Station. See Blue Figure Price List.

FLAMBEAU

A popular variety in northern states, originally introduced from Russia and thoroughly tested at Wisconsin's Experiment Station. Flambeau grows 22 to 26 inches tall and is not as highly resistant to lodging as Ottawa Mandarin. However, it has proved to be a good seed producer and is about equal to Kabott in oil percentage. It is adapted for seed production in the northern one-third of the Central Zone and in the North Central and Northern Zones. It is recommended by the Minnesota Crop Improvement Association for hay production in the North Central and Northern Zones.

OTTAWA MANDARIN

An improved Mandarin from Dominion Experiment Farm, Ottawa. Plants grow 27 to 33 inches high, with good standing ability, purple flowers and yellow pods with 2 to 4 buff seeds. 1946 U.S.D.A. data on 3 years testing shows Ottawa Mandarin averaged 27.3 bushels per acre yield (highest in its maturity group), 42.6% protein, 19.2% oil of 131 iodine number. Ottawa is higher in yield and oil than Mandarin Wis. 507. Ottawa strain is recommended for seed and hay production in Southern, South Central, Central, and North Central Zones, and for hay only in Northern Zone. When planted late (June 20) in Southern Zone, Ottawa ripened and produced 25 bu. per acre. Recommended by Minnesota Experiment Station. See Price List.

MANCHU, Wisconsin 606

Developed by Wisconsin Experiment Station. Similar to Habaro in yield, and maturity, with fairly good standing ability. Averages 1.5% to 2% higher in oil content than Habaro. Adapted for seed and hay production in Minnesota's Southern Zone, South Central Zone and Southern two-thirds of Central Zone, and for hay only in the Northern third of Central Zone, and in North Central Zone. 1946 U.S.D.A. data on 3 years testing shows Wis. Manchu 606 averaged 27.6 bushels per acre yield, with 41.4% protein, 19.9% oil of 135 iodine number. Recommended by Minnesota Experiment Station. See Blue Figure List.

**Get More
SOY BEANS**
by inoculating
your seed with
NITRAGIN
every year—even
though planted on
fields that have
been inoculated
before!

SOYBEAN NITRAGIN PRICES:

- 2 bu. size...\$0.30
5 bu. size... .55
25 bu. size (1 can)
not ppd. . . \$2.50
30 bu. size (six 5 bu.
cans) not ppd. \$3.25



SOYBEAN root with nodules produced by NITRAGIN inoculation. NITRAGIN bacteria within the nodules aid in producing higher protein hay, more soybeans and richer soil.

Canada Yellow Field Peas

Field Peas are better suited to the Northwest than other annual legumes for building up worn-out soils. They are usually grown with oats for hay, a combination equal in feeding value to clover hay. They contain more digestible crude protein and fat than alfalfa and corn.

When they are grown with oats, they are threshed together, and easily separated with a fanning mill after threshing, thereby getting two crops from one operation. Sow 2 bushels

of oats to 1½ bushels of peas per acre. Drill the peas in 4 inches deep, as early as the ground can be worked. Then, 2 or 3 weeks later, sow the oats, drilling it in the other way. If the oats are sown with the peas, they grow too rapidly, and check or smother the growth of the peas. Price: 5 lbs. \$1.25, post-paid. For prices on larger quantities, see Price List.

MASTER HYBRIDS for 1948

Master Hybrids are bred, produced, tested in Minnesota to insure fitness for Northern climates. Below we give you only FACTS. We quote yields from unbiased OFFICIAL STATE TRIALS, conducted by State Experiment Stations—not from private tests! (In Minn. State Tests, a plus index shows degree of superior performance over the average of recommended hybrids.)

See Blue Figure Price List in front of catalog

MASTER F-21 for zones A, B & C (84-88 Days)

A great favorite in Northern Zones of Minnesota, North Dakota, Wisconsin, Michigan, Montana, and similar early territories. One of the earliest hybrids on the market. In Official Minnesota Yield Trials (Northern Zone) produced over 54 bushels per acre, with a plus 7.4 index of performance, an outstanding record! A plus index indicates degree of superiority over the average of recommended hybrids for the zone. (See table below.) Three-year averages show only 1% smut, plant height 74 inches, ear height 29 inches, ear length 7 inches, 14 to 16 rows, only 1% root lodging, and no broken stalks. Easily harvested with mechanical picker. Produces bright, sound, deep yellow ears with golden bronze tinge. High feeding value. Performs well on peat or muck soils. Popular for hogging off in Southern Zones.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Minnesota, Northern Zone, 2 Yr. Average ('43-'44)	54.35	Plus 7.4 Index
Michigan, Northern Zones 6 and 7, 2 Yr. Average ('44-'45)	51.8	Highest yield of all hybrids tested
North Dakota, Northeastern Area (Grand Forks County), 5 Yr. Av. ('41 thru '45)	45.9	Significantly highest yielding group
North Dakota, Western Area (Burleigh County), 2 Yr. Average ('44-'45)	42.3	Significantly highest yielding group
Ottawa, Ontario, Canada, 1945	56.78	High yield
Montana (Huntley Irrigated) 2 Yr. Average ('41-'45)	71.5	5% greater yield, 3% less moisture than Payne's White Dent

MASTER F-41 for zones D & E (96-100 Days)

A new yellow dent hybrid, tailor-made for Minnesota's North Central Zone, and similar areas in North Dakota, Wisconsin, Michigan, and South Dakota. Trials show this hybrid superior to Master F-40 in yield and lodging resistance. Note outstanding official performance in table below. Three-year averages show only 1% smut, plant height 87 inches, ear height 32 inches, only 1% root lodging, no broken stalks, ear length eight inches, and 16 rows. Harvests easily with mechanical picker. Sound, rich yellow ears, with deep kernels, and a small cob, with high shelling percentage. An excellent feeding corn. Performs well on peat soils, ideal for hogging off in more southern sections.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Michigan, Sanilac County (1946)	45.4	Significantly highest yielding group
Michigan, Montcalm County (1946)	61.5	Significantly highest yielding group
North Dakota, Richland County (1945)	41.0	Significantly highest yielding group

MASTER F-60 for zone E (101-105 Days)

A yellow dent hybrid, profitable in Central Zones of Minnesota, Wisconsin, Michigan, South Dakota and southeast North Dakota. 3-year averages show: 87" plants, 32" ear height, 8" ears with 16 rows, 1% smut, 1% root lodging, no broken stalks. A rapid grower with very deep green foliage. Bright yellow ears on short shanks, ideal for machine picking. Deep kernels of high feeding value.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Minnesota, Central Zone, 2-Yr. Average (1942 thru 1944)	62.7	High yield
North Dakota, Richland County, 6-Yr. Average (1941-1946)	44.2	Significantly highest yielding group
Michigan, Huron County (1946)	64.1	High yield

MASTER F-60A for zones E & F (102-106 Days)

A new improved model of the famous old Master F-60. After extensive tests, with inbred combinations, this hybrid's superiority stood out prominently. It really "strikes the eye" with its beautiful field appearance. Deep green plants with long, showy-type ears. Adapted to the Central Zones of Minnesota, Wisconsin, Michigan, South Dakota, and southeastern North Dakota. Tests show only 2% smut, plant height 90 inches, ear height 36 inches, only 2% root lodging, no broken stalks, ear length 8 inches, 16 to 20 rows. Absolutely free from ear rots, with deep kernels of highest feeding quality. Well adapted to mechanical harvest.

In our 1946 trials, Master F-60A made a record 93.1 bushels per acre, outyielding all other hybrids of similar maturity!

*Performance in Official State Trials:

Test	Acre Yield	Rank
Michigan, Huron County (1946)	69.3	High yield
Michigan, Montcalm County (1946)	61.9	Significantly highest yielding group

MASTER F-82 for zones E & F (104-108 Days)

A most popular hybrid in South Central Zones of Minnesota, Wisconsin, Michigan, South Dakota, extreme southeastern North Dakota, and similar areas. Three-year averages show only 1% smut, plant height 96 inches, ear height 42 inches, 1% root lodging, no broken stalks, ear length 8 inches, 16 rows.

Pleasing uniformity of plant and ear characters. Plants of rich dark green, with attractive ears packed with richly colored, thick dented kernels, high in feeding value. Easily harvested with mechanical picker. A favorite with our customers everywhere in the 105-day class.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Minnesota, South Central Zone, 3-Yr. Average (1942-1944)	62.03	Index plus .4
Michigan, Saginaw County (1946)	67.8	Significantly highest yielding group
Michigan, Huron County (1946)	70.0	High yield.
South Dakota, Grant County (1946)	65.6	High yield

MASTER F-101 for zones G & H (114-118 Days)

A favorite big yellow type with a remarkable record for Southern Zones of Minnesota, Wisconsin, Michigan, South Dakota, and in Northern Iowa. Three-year data: 98" plants, 42" ear height, 9" ears with 18 rows. No smut, 1% root lodging, no broken stalks. A vigorous grower, dries rapidly after maturity. Huge ears with excellent grain quality.

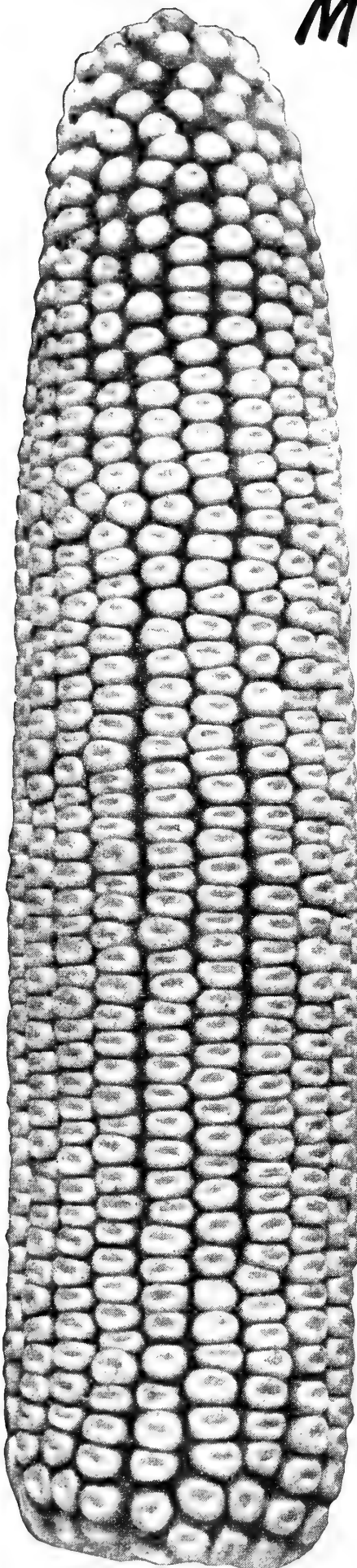
See Performance of F-101 on page 1.

Test	Acre Yield	Rank
Minnesota, Southern Zone, 3 Yr. Average ('42 thru '44)	70.9	Yield index plus 5.7

MASTER F-101A for zones G & H (119-116 Days)

A new improved model of the famous old Master F-101, selected after extensive tests with many inbred combinations. New F-101A is earlier than F-101, and superior in standing ability, at the same time retaining all the excellent qualities of the famous F-101.

1944 and 1946 averages show no smut, plant height 98 inches, ear height 42 inches, only 1% root lodging, no plants broken, ear length 9 inches, 18 rows. Unfortunately, seed supply was not sufficient to enter in State Yield Trials until 1947. Our own extensive trials show yields equal to F-101. In our 1946 trials, Master F-101A made a record of 95.1 bushels per acre! Customers who reported such pleasing performance with F-101 should try new F-101A for its beautiful field appearance, earlier maturity, improved standability, excellent seedling vigor, quick drying, excellent keeping qualities, and ease of mechanical harvest.



MASTER HYBRID F-101
(114-118 Days)

THE NORTHWEST'S

Best Silo Filler!

**IMPROVED
IDEAL HYBRID SILO CORN**

MASTER F-106A (113-117 Days)

Ideal Hybrid Silo Corn fills many a silo from half the usual acreage. For feeding green, for ensilage and for curing in shocks to be fed in the bundle, it's the Northwest's greatest producer!

FOR ZONES G AND H

A new improved model of famous Master F-106. The addition of one new inbred, in combination with three proven Ideal inbreds, resulted in 3 to 5 days earlier maturity, improved standing ability, a shorter, more convenient plant height, and still retaining the splendid features of the original Master F-106. Two-year averages show only 1% smut, plant height 90 inches, ear height 40 inches, only 1% root lodging, no broken plants, ear length 9 inches, 16 rows. Seed supply was not sufficient to enter in State Yield Trials until 1947. However, new F-106A made the highest yield of all hybrids tested in our own 1946 trials with a yield of 108.8 bushels per acre! Outyielding the original F-106 by more than 14 bushels.

Produces 15 tons of quality silage per acre, rich in carotene, source of Vitamin A. Harvest silage at the medium dent stage, while most of the plants are still reasonably green and succulent for greatest dry weight. Delay beyond this time results in heavy losses of carotene without much increase in total yield of silage. New F-106A is splendid for silage in all zones—figuring maturity at 10 days later than for grain production.

THE BEST STATE HYBRIDS

★**WISCONSIN 279 (84-88 Days)**

FOR ZONES A, B, AND C

Here's the most popular Experiment Station 85-day hybrid in the northern zone of Minnesota, North Dakota, Wisconsin, Michigan, Montana, and Canada, according to certified seed production records plus farmer preference. Recommended by Minnesota, Wisconsin, North Dakota, Michigan, Canada, and Montana Experiment Stations.

Five-year tests by Minnesota's Experiment Station, in the Northern Zone show a yield of 44.1 bushels per acre, with 37.2% moisture, and a performance index of plus 7. Three-year averages show only 1% smut, plant height 75 inches, ear height 30 inches, only 1% root lodging, only 1% broken stalks, ear length 6½ inches, 16 rows. Can be harvested easily with a mechanical picker. Produces sound, rich yellow ears, free from ear rots. Depth of kernel makes it a prime feed favorite. Performs well on peat soils, and is in big demand in more southern sections for "hogging off."

★**MINHYBRID 602 (98-102 Days)**

FOR ZONES D AND E

Without a peer in its maturity group! It has proved outstanding in the Central Zone of Minnesota, Wisconsin, Michigan, South Dakota, and southeastern North Dakota.

Four-year tests by Minnesota's Experiment Station, in the Central Zone show a yield of 61.8 bushels per acre, with 31.6% moisture, and a performance index of plus 16.9. Three-year average shows only 1% smut, plant height 87 inches, ear height 32 inches, only 1% root lodging, only 1% broken stalks, ear length 7.6 inches, and 16 rows. Excellent for mechanical harvest. Has good depths of kernel and grain quality, and rates high as a feeding corn. A versatile performer, as it seems to ripen well and yield heavily, slightly north of the Central Zone. In later zones it yields as well as hybrids a week later in maturity.

★**MINHYBRID 503 (105-109 Days)**

FOR ZONES F AND G

A hybrid combination of three Minnesota inbreds with an inbred from Ohio. Well adapted to South Central Zones of Minnesota, Wisconsin, Michigan, South Dakota and similar territories. The most popular of all 500 series Minhybrids on a basis of certified seed production records and farmer seed preference.

Four-year tests by Minnesota's Experiment Station in the South Central Zone show a yield of 74.1 bushels per acre, with 27.8% moisture, and a performance index of plus 15.4. In five-year tests in the Southern Zone, Minhybrid 503 made a yield of 74.4 bushels per acre, with 23.8% moisture, with a performance index of plus 37. Three-year averages show only 3% smut, plant height 97 inches, ear height 42 inches, only 3% root lodging, only 3% broken stalks, ear length 8 inches, 16 to 18 rows. Harvests very well with a mechanical picker. Produces deep, richly colored, yellow kernels of high feeding value.

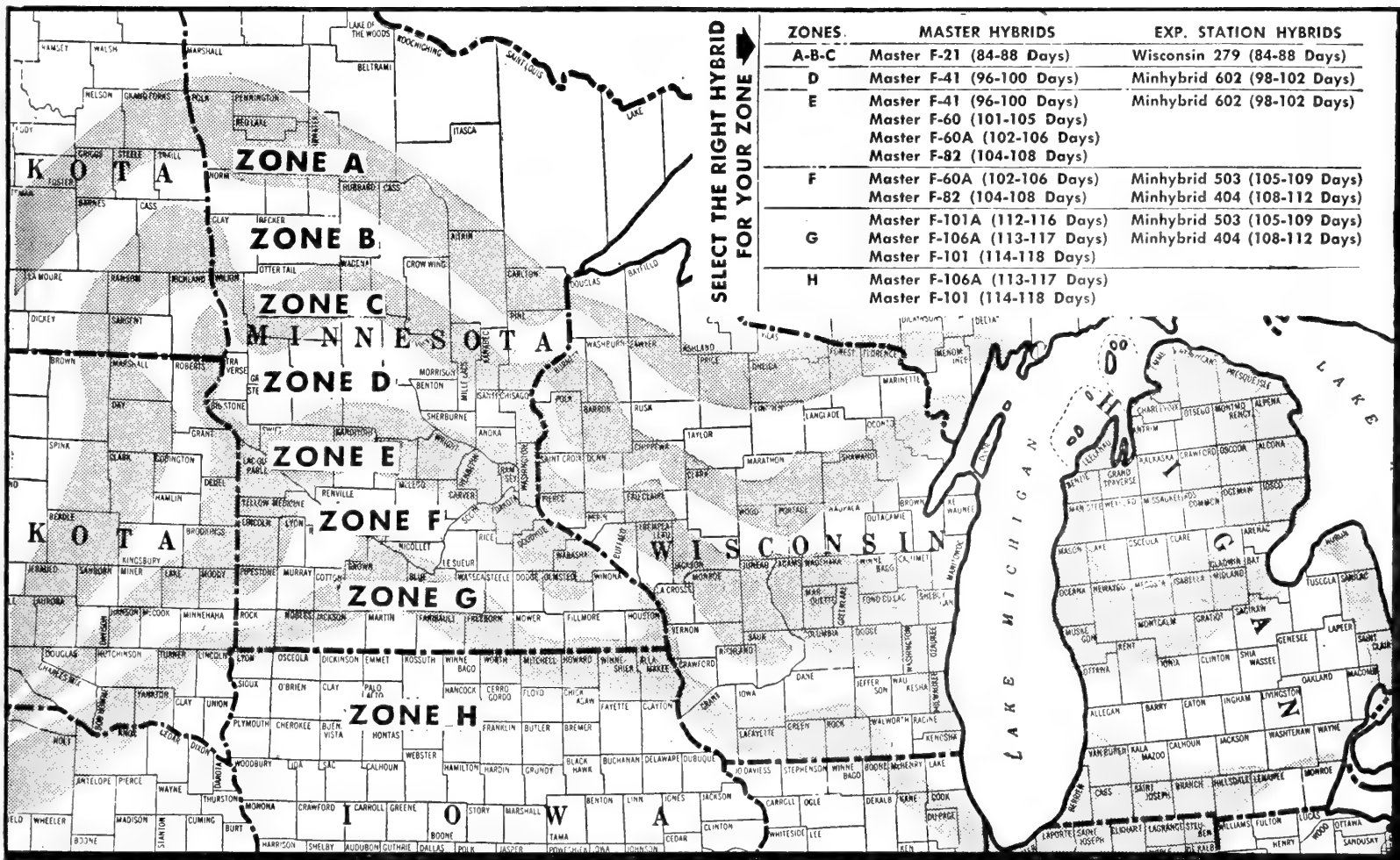
★**MINHYBRID 404 (108-112 Days)**

FOR ZONES F AND G

A pleasing double hybrid in great demand in the Southern Zone of Minnesota, South Dakota, Wisconsin, Michigan, and similar locations. The most popular of all 400 series Minhybrids, on a basis of certified seed production records and farmer preference.

Eight-year tests by Minnesota's Experiment Station show a yield of 72.3 bushels per acre, with 26.3% moisture, and a performance index of plus 35 in the Southern Zone. Five-year averages show only 3% smut, plant height 94 inches, ear height 42 inches, absolutely no root lodging, only 2% broken stalks, ear length 7.7 inches, 18 rows. Harvests very well with a mechanical picker.

Master Hybrid and Minhybrid Planting Guide



SORGHUM CANE



The Minnesota Crop Improvement Association urges planting of sorghum for syrup manufacture and recommends Minnesota Orange Sorghum Cane, and Dakota Early Amber. The Iowa Experiment Station also recommends Minnesota Orange Sorghum for northern Iowa. There are a number of sorghum mills in Minnesota and Iowa where sorghum may be taken for syrup production.

MINNESOTA ORANGE SORGHUM CANE—An early strain selected from Waconia Orange, grown in Southern and South Central Minnesota for many years. Grows heavier but shorter stalks than Amber Cane and withstands storms and wet weather without lodging. Sow 8 to 10 lbs. per acre for syrup. An excellent sweet stalk sorgho, that produces 5 to 10 tons of quality cane per acre, and 25 to 40 bushels of seed per acre. Over 200 gallons of delicious, golden yellow syrup from one acre!

Minnesota Orange Cane syrup is preferred by consumers because it's lighter in color than Amber Cane syrup. Sorghum syrups are superior to other syrups for certain table and culinary uses. (Makes delicious brown bread, cookies, pies, baked beans.) Syrup made on farms is sometimes purchased by commercial concerns who market it, but usually farm-made syrup is utilized in the locality where made. Price: 5 lbs. \$1.25, postpaid. (See Price List.)

DAKOTA EARLY AMBER—The Early Amber Sugar Cane grown in Dakota is superior to that grown anywhere else. It is the earliest strain grown, very hardy, of fine quality, and yields from 12 to 20 tons of cane per acre, according to soil conditions and cultivation. It grows 8 to 10 feet high, yielding much fodder, of good quality. Early Amber Cane and Fodder Corn are often planted together, and produce immense yields.

One acre of Early Amber Cane will produce enough to make 175 to 200 gallons of syrup, of delicious rich quality, golden yellow color.

We offer an improved strain of Dakota Early Amber Sugar Cane which has been carefully bred for size, sugar content, and palatability. Sow 8 to 10 lbs. per acre for syrup. Price: 5 lbs. \$1.25, postpaid. (See Price List.)

FODDER CANE—(Southern Grown.) A profitable feed crop producing as much as 30 to 35 tons of green feed per acre. It makes good hay if cut before it grows too high. It matures later than Early Amber Cane. Sow 50 to 60 lbs. broadcast or 12 to 15 lbs. in drills per acre. Price: 5 lbs. \$1.15, postpaid. (See Blue Figure Price List.)

Sunflower (Mammoth Russian) for Ensilage and Fodder

Sunflower for ensilage and fodder is now advocated by experiment stations. Profitable where seasons are too short for other forage plants, sorghums, etc.

A profitable crop for fattening hens or producing eggs. Flower heads measure 12 to 22 inches across, containing many seeds. Price: Lb. 55c, 5 lbs. \$2.50, postpaid.

MILLET ("THE IDEAL CATCH CROP") SUDAN GRASS

Although many farmers are now growing Millet regularly as a hay crop, it was not until the last few years that its value was fully appreciated as a quick-developing crop. Many find it of great value in case of crop failure of Clover and Timothy, when dry, spring weather cuts short the pasture and meadow grasses, or when there is a cold, wet spring and corn and other early sown crops are drowned out—it is then that Millet is fully appreciated.

Millet may be planted up to July 1 and even later, and still produce a crop of hay or pasture. Millet hay properly handled has great feeding value and milk-producing qualities. For hay it should be cut as soon as it blooms, before the seed forms, otherwise the hay is apt to be woody. In more southern sections Millet is sown as a catch crop after the grain has been harvested. It produces the best results in warm, rich soil.

Sow broadcast, using about 25 lbs. per acre, covering seed three-quarters of an inch deep. For a seed crop, allow the Millet to ripen fully and harvest with a grain binder.

JAPANESE MILLET

Billion Dollar Grass

One of the best forage crops for feeding all kinds of livestock. High in milk-producing qualities, being rich in protein and fats. Combined with soy beans, as ensilage, it makes an ideal balanced ration (two parts of millet to one of soy beans). Adapted to all sections of the country; it makes more hay than any other millet, and requires less seed. It is the ideal catch crop, and may be sown from May to July.

For hay, cut it just before it blossoms, and cure the same as clover. It also makes good pasture, but the cattle must be accustomed to it gradually. It grows 4 to 8 feet high and produces 5 to 6 tons of hay per acre; it's drought-resistant, yet can be grown on wet or poor soil; it's cheap to sow, only 20 to 25 pounds of seed per acre being required; it's very palatable and is liked by all classes of livestock.

FOXTAIL MILLETS

Sow 15 to 20 pounds per acre.

GERMAN OR GOLDEN—This is one of the best varieties for hay and fodder. It makes rapid, vigorous growth, often yielding 3 to 5 tons of hay per acre, on good rich soil. It grows 4 to 5 feet high, is of rather coarse appearance, and should be cut for hay before it is in full bloom. At this stage, the hay is best, and so tender it can be fed to hogs.

SIBERIAN—We think this the best Millet for dry sections. It is extremely hardy, drought resistant, and about two weeks earlier than Golden Millet. It stools heavily, is very leafy, and yields enormous quantities of fine quality hay. It produces 50 to 70 bushels of seed per acre.

PROSO MILLET

Sow 25 pounds per acre.

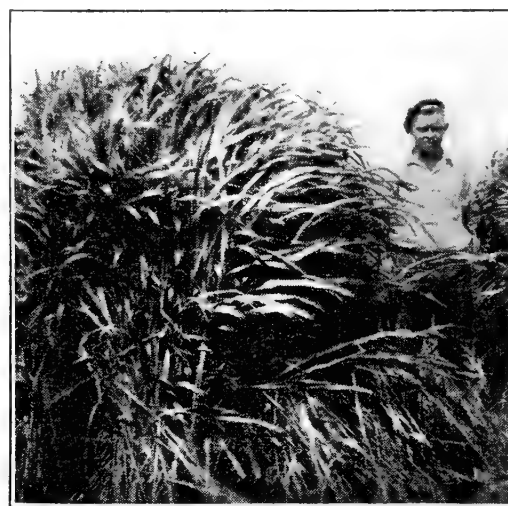
RED PROSO MILLET—A very popular variety for producing ripe grain or seed, but not a hay millet. Can be seeded after early canning peas are harvested, and still mature a crop easily. Plants are short and medium-early in maturity. Seed hull is reddish-brown. In North Dakota Experiment Station trials, Red Proso was as readily consumed as yellow corn, by laying hens and growing turkeys. In fact, annual egg production per bird, was higher where Red Proso replaced corn.

See Blue Figure Price List.

Vetches (Sand or Hairy)

Vetches, either green or as hay, make excellent feed and are also used extensively as cover and green manure crops. They make good hay, ensilage, pasture and green feed and are very valuable as a green fertilizer and as a cover crop in orchards, preventing the washing away of the soil.

Vetch may be sown in the spring at the rate of 60 lbs. per acre, or with a grain crop such as oats, wheat, rye or barley, at the rate of 30 lbs. per acre, and using one-half of the normal rate of small grain. This combination makes excellent forage or hay and also aids in preventing the Vetch from lodging. Price: 5 lbs. \$1.75, postpaid. See Price List.



Three to 4 tons of Sudan hay from one cutting.

SUDAN GROWS QUICKLY

One of the best annual forage plants ever introduced, suitable for almost any locality. Sudan Grass thrives best on rich loam, but has been successfully grown on almost every kind of soil, from heavy clay to light sand. Cold, wet soils are not suited to Sudan Grass. Sudan Grass is a sorghum, and an annual, without underground root sprouts. It grows 4 to 5 feet high in drilled seedings, and 5 to 8 feet in cultivated rows.

DO NOT SOW SUDAN GRASS BEFORE CORN PLANTING TIME. Like corn, it is a warm weather crop.

In favorable seasons, the growing period is long, and several cuttings can be obtained in one season. For hay it is ready to cut in 60 to 75 days, when it is in full head. It continues its growth, and in 40 to 45 days it is ready for another cutting. If Sudan Grass is grown for seed, only one crop can be harvested.

Produces Quality Hay

Sudan Grass is an enormous yielder, producing 3 or 4 tons of hay at the first cutting. The second cutting is lighter, and the hay is much finer. Livestock of all kinds will eat the hay readily.

CULTURE—For a seed crop, sow 15 lbs. per acre, in drills, 15 to 20 inches apart. The crop should be harvested with a grain binder.

For hay, sow at the rate of 20 to 30 lbs. per acre, using a grain drill, and cover from one to one and one-half inches deep. Heavy seeding makes finer quality hay.

The hay crop is harvested with a regular mower, when the Sudan Grass is fully headed out. It can be cut in the morning, and if the sun is bright, it should be raked up in the afternoon of the next day. After bunching, it is placed in cocks, just the same as alfalfa. After it has been thoroughly cured, it is removed from the cocks to the barn, or stacked. Because of the large amount of juice in the stems of Sudan Grass, the leaves cure first and the hay often appears ready to stack, when it is not. Therefore, the only sure way to avoid heating, is to allow Sudan Grass to remain in cocks long enough for the stems to become dry. The leaves are retained well, and if cut at the right stage will make a bright, leafy, sweet hay, of the very best quality.

Plant Legumes with Sudan

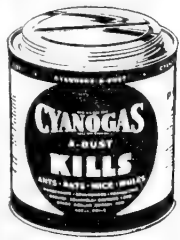
Sudan Grass grown with legumes, such as soy beans, makes a well-balanced mixture for pasture, ensilage and hay. Sudan Grass grows stiffly erect, with stems strong enough to support the vines and makes harvesting easier, by keeping them off the ground. It hastens curing, by preventing the beans rotting.

Sudan Grass and soy beans, planted together, make a good hog pasture. Sow 25 to 30 lbs. Sudan Grass and the same quantity of soy beans, to the acre, drilling in the seed with a grain drill. For quickest results, sow in rows 18 to 20 inches apart, and cultivate.

See Blue Figure Price List.

SUDAN GRASS CIRCULAR FREE

Farm and Home Pest Destroyers Money-saving Farm Helps

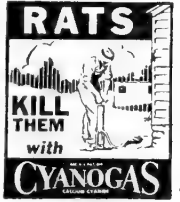


CYANO GAS

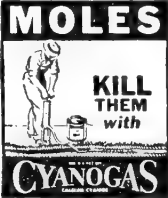
KILLS

RATS, MICE, GOPHERS, MOLES, WOODCHUCKS in corn cribs, burrows, under buildings, barns and hard-to-get-at places.

Cyanogas gives off a gas deadly to rodents. The residue, after gas is given off, is non-poisonous. Pests need not eat Cyanogas or even touch it. It gets 'em wherever they are. Can be applied with dusters (below) or by sifting. Directions on pkg. Write for big free folder telling how to rid your premises of 24 different farm and home pests.



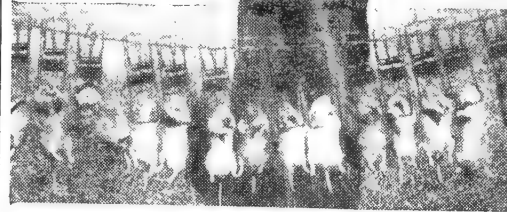
Cyanogas A-Dust: 1 lb. 98c, postage 10c extra. 5 lbs. \$3.75, 25 lbs. \$12.50 f. o. b. Faribault.



"Sure-Catch"

Only 75c Postpaid

Pocket Gopher Trap



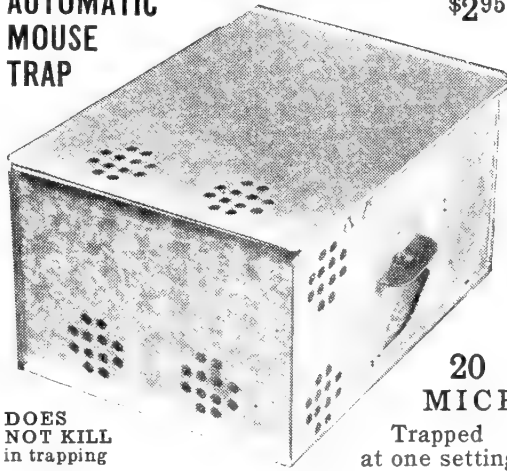
Few farmers realize the losses caused by pocket gophers. Most counties pay bounties to check these farm robbers, but here is a trap that will really get a pocket gopher nine times out of ten. This trap is simple and effective.

Sure-Catch Trap is easy to set—perfectly harmless to handle and fits into the gopher hole, half length. Boys and girls make good money trapping pocket gophers.

Price, New Victory model made of heavy steel wire; 75c each, 6 for \$4.25, prepaid.

World's Finest AUTOMATIC MOUSE TRAP

Postpaid \$2.95



DOES NOT KILL in trapping

Trapped at one setting

Catches mice by the dozens! Effective, fool-proof, sanitary. Just wind it up, place it on floor, and empty it every few days. Simply eject trapped mice into water without touching them, or immerse the trap to destroy them. The lively trapped mice attract others into trap. Lures them without bait. Sturdily built, all metal, fully galvanized, guaranteed, lasts for years. \$2.95, postpaid.

Protect Your Eyes with AIR CORPS TYPE SUN GLASSES

On the farm, as in the air, tired eyes are dangerous eyes. These lenses are ground and polished on 4-base meniscus curve, with pleasing green tint. Absorbs 95% of infra-red and ultraviolet rays that cause fatigue. Made to U. S. Bureau of Standards specifications, gold plated frames, adjustable temple wires, mother-of-pearl plastic brow bar and nose pads, of ample size for any face. Leatherette case included. Specify men's or ladies' style.

Special Sale Price

Per pair postpaid, \$2.88



IT'S NEWS! BAR-SPROUT

prevents Potato Sprouting in storage

(Not for seed potatoes.)



A new marvel of science enables farmers and gardeners to store home-grown potatoes for 12 months without sprouting or shrinking! Cold storage not necessary. BAR-SPROUT not only prevents unsightly sprouts and shriveled tubers, but actually improves cooking and eating quality! Potatoes remain firm, fresh, finer flavored, make attractive white potato chips. Saves 15% in shrinkage alone, and unsprouted potatoes bring a premium on spring markets. Controls sprouting of beets, turnips, carrots, rutabagas in storage. BAR-SPROUT treated vegetables are absolutely harmless for eating—even when 90 times recommended dosage was used in qualified laboratory tests. Easily applied from shaker top can—just dust each layer of tubers when filling bin. The brown powder is not noticeable after applied. 10 oz. Sifter can (treats 8 bu.) postpaid \$1.00 5 lb. Can (treats 55 bu.) postpaid \$5.75 20 lb. Drum (treats 250 bu.) not ppd. \$16.00

More Eggs

By Keeping Hens Free from Lice with

MINK'S LOUSE KILLER OINTMENT

—One application keeps hens free from lice up to six months. Pays its cost several times in increased egg production. Wonderful remedy for head lice, on baby chicks and turkeys. If not completely satisfied, return empty box and get your money back. One box treats 75 to 100 hens. Perfectly harmless. Price: 80c, ppd.

Humane Dehorning Pencil



The value of a calf is increased \$2.00 by dehorning. The brutal method of sawing off the horns is obsolete. Check the growth of horns in young calves with our "Humane" Dehorning Pencil. One application does the work—does not injure calf—practically painless. Satisfaction guaranteed or money back. Each pencil dehorns 10 to 15 calves, at a cost of about 4 cents per calf. Thousands of satisfied customers. Price: 50c per pencil, 3 for \$1.30, prepaid.

SEED TREATMENTS

ARASAN—The new and profitable garden seed treatment that's more effective and easier to handle. See page 17.

BARBAK—This dependable seed corn treatment increases germination and stand at a cost of 2c per acre. Permits earlier planting, prevents seed rotting, and insures increased yield. Price: 1 1/2 oz. pkt. (enough for 1 bu. seed) 15c, prepaid. Not prepaid, 1 lb. tin (40-acre size) 75c.

SEMESAN JR.—Another seed corn treatment which destroys seed-borne diseases, protects seed from rotting in cold wet soil, thus makes early planting possible. Price: 1 1/2 oz. (enough for 1 bu. seed) 17c, prepaid. Not prepaid, 12 oz. 62c.

CERESAN—For treating seed grains—wheat, oats, barley. See page 64 for details.

SEMESAN BEL—For treating seed potatoes. See page 20 for details.

SEMESAN—For treating all garden and flower seeds. 1/3 oz. 12c, 2 oz. 45c, 12 oz. \$2.10, prepaid.

NITRAGIN—For inoculating Alfalfas, Clovers, Soy Beans, and Garden Peas and Beans. Boosts yields and enriches soil. See page 64.

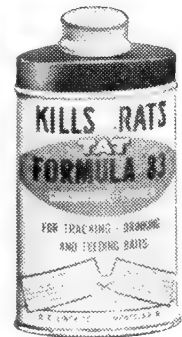


You've Read About It!

"ANTU"

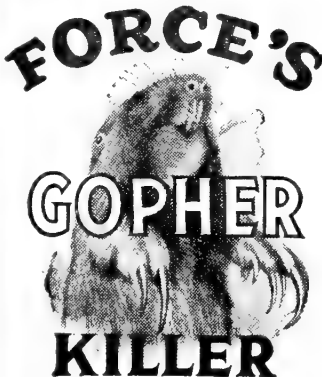
TAT FORMULA '83'

So powerful one lick kills! Leading magazines tell of this war-time discovery that will always kill rats. It's tasteless yet a teaspoonful can kill 3,000 rats! Chickens not affected. Offered in 2 forms: HOME SIZE: Contains 4 oz. Feeding Bait—ready to use—no mixing—also pkg. Drinking Bait to dust on water. Postpaid, \$1.00.



ECONOMY SIZE: 1 1/2 lb. jar Feeding Bait. Postpaid, \$4.00.

TRACKING BAIT: A shaker can of Concentrate Powder to sprinkle on runways—adheres to feet creating irritation, causing rats to lick feet. One lick kills! Shaker can ppd. \$1.00.



GET RID OF Pocket Gophers

No traps, no gas. No bait to mix! Here is the result of extensive research, made in ready-to-use pellets—easy to use. Has no harmful effect on soil or vegetation. Reaches and kills Pocket Gophers right in the ground. Guaranteed effective. 60 Force's Gopher Pellets for 50c, 175 for \$1.00, postpaid.

anteed effective. 60 Force's Gopher Pellets for 50c, 175 for \$1.00, postpaid.

High Grade Garden Implements to Make the Job Easier!

The "ALL PURPOSE" Garden Hoe for Cultivating Weeding and Mulching



Try this new, high speed, light weight garden tool! So easy to handle, so much lighter, faster and better—you'll never go back to the ordinary hoe! Enthusiastic women gardeners claim less fatigue, better results.

You'll find it's fun to flick Dandelion and Plantain from the turf, or mulch around evergreens, shrubs, perennials.

Goose-neck shank permits close cultivation of prized perennials. Amazingly efficient for mulching, cultivating, weeding your garden. Weighs only 1½ lbs., yet stronger than other garden hoes.

Makes gardening
a pleasure

Here is a splendid gift suggestion for any garden or flower lover—something new and different. Order today! Price: \$1.30 each, 3 for \$3.75, postpaid.

\$1.30
ppd.

3
FOR
\$3.75
ppd.

GARDEX SEEDER—Victory Gardeners' Favorite— \$1.30



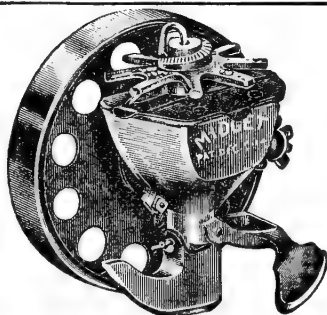
Gardex Sows Seed Evenly

The handiest little seeder ever offered. Adjustable for planting seeds from the smallest flower seeds up to cucumber size. Two discs fit together—are adjustable to obtain the right opening, and easy to fill. Sows seeds quickly, evenly, economically—no bending down necessary. They cannot clog up. Will give years of service at a small cost. Disc hopper capacity ¼ pint, diameter of discs 4½ inches, largest opening .28"x.4". Market gardeners prize this seeder highly for hotbed and greenhouse sowing. Complete with 30-inch normal length handle. Price \$1.30, prepaid.

MIDGET SEEDER No. 6

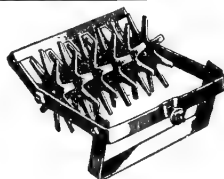
For sowing any kind of seed, from the smallest up to peas and beans, in any quantity. Will attach with one bolt to any Standard Single Wheel cultivator or most other Single Wheel cultivators having 5½ inches or more space between shank and wheel. Shoe is adjustable for any depth and coverer swings easily. The most popular seeder on the market. Handle extra if for use alone. Weight, 8 lbs.

Price: Set up, ready to be attached, \$5.60. With handle, \$6.60, not ppd.



Standard Weed Killer PULVERIZER & MULCHER

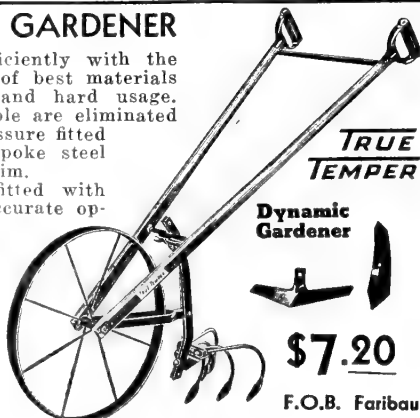
Attaches to any high wheel cultivator. Runs light. Has six star wheels mounted on revolving shaft. Between wheels are projecting teeth which pulverize the lumps. Mounted in front is a 10-inch scuffle blade, both edges sharpened. Weight, 6 lbs. Each \$1.95, postpaid.



No. 120—DYNAMIC GARDENER

Light weight to operate efficiently with the least effort, yet sturdily built of best materials and precision fitted to withstand hard usage. Wear, friction, and wheel wobble are eliminated by an oilless wood bearing, pressure fitted in hub of sturdy, 20-inch, 8-spoke steel wheel, with 1½-inch convex rim.

Fire-hardened ash handles fitted with I-D-L grips assure easy and accurate operation. Overall length, 51 inches. Handles easily adjusted to any desired height. Steel parts finished in True Temper maroon lacquer. All attachments natural finish, rust proofed. Complete with these attachments: Five-prong Cultivator, Double-end Shovel, Scuffle Hoe. Weight, 38 lbs.



\$7.20

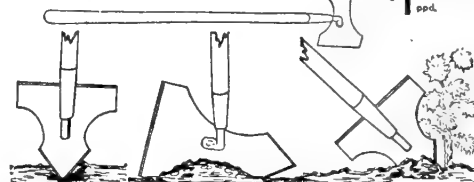
F.O.B. Faribault

IT'S NEW!

Curved, sharpened blade enters ground properly—easy to work. Features: a regular hoe blade for working large areas, a pointed blade for seed furrows, irrigation trenches, or cultivating and mulching close to small plants. Covers furrows when turned on side.

NORTHFIELD '3-IN-1' HOE

\$1.75
ppd.



Making
Furrow

Covering
Furrow

Cultivating
Small Plants

No. 1523—GARDEX CULTIVATOR and WEEDER



Every gardener will prize this new tool—a cultivator and weeder combined. A real time and labor saver—light weight, very efficient. The 3-prong cultivator loosens the soil thoroughly—while the weeding blade cuts off weeds quickly. Painted red, it has three prongs, is 4½ inches wide. Weeding blade is 4 inches wide, complete with 4½-ft. normal length garden handle. Price \$1.45, prepaid.

ADJUSTO BROOM LAWN RAKE

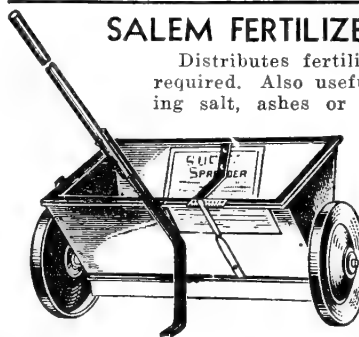
Closes to 9 in.
Opens to
18 in.

A flexible, durable metal broom rake with a patented adjustable feature that gives usefulness and convenience, never before combined in any rake. The only broom rake that will clean both narrow and wide spaces. Opens to any size from 9 to 18½-inch spread. Nothing so handy for cleaning among shrubbery, between plants, and in corners. Ideal for raking grass and leaves. Has a 5 ft. handle of hardwood, lacquer finish, securely fastened with two clamps. The 16-inch teeth are made of high carbon tempered spring steel, electro galvanized. Weight less than 2 lbs. Price \$1.50, postpaid.



SALEM FERTILIZER SPREADER \$5.75

Distributes fertilizer or grass seed on lawns exactly as required. Also useful in top dressing, sanding and spreading salt, ashes or sand on icy walks and drives. Steel



construction, reinforced hopper with adjustable feed control that permits applying any desired quantity over a given area. Both manual and automatic shutoff, full welded agitator, with riveted 8-inch disc wheels. 16-inch hopper has 22 pounds capacity. Spreading width 18 inches. Weight 13 lbs. By express, not prepaid, \$5.75.

New Automatic Garden Hose Nozzle

PICK IT UP...IT'S ON!



To operate Water Saver, hold in hand just ahead of hose connection. See illustration above. Control flow by degree of pressure placed on flexible nozzle.

The handiest time and water saver you've ever used. For watering garden, shrubs, lawns or washing car. Delivers any amount or force of water desired, with slight bend of wrist. Works like magic! Conventional nozzle can also be attached. Each \$1.60 ppd.



To stop flow, merely release pressure on the flexible nozzle. The internal trigger instantly closes valve and water stops. No leaks, no drip, no waste.

DROP...IT'S OFF!



Like **ALL NIGHT RAIN**
IT REALLY SOAKS THE SOIL

SOIL-SOAKER

Prices
All Postpaid

PRICES

No. 1—
18 ft. long
\$2.15

No. 2—
30 ft. long
\$3.30

No. 3—
50 ft. long
\$5.25

Water seeps through entire length gently—no spray—puts water where you want it—all soaks to the roots. Made of treated mildew-resistant canvas. One end screws to water hose, other end closed. Water seeps through every pore—soaks directly into the soil over an area of several feet on all sides. No excessive evaporation. Ideal for lawns, terraces, flower and vegetable gardens, hedges, shrubs, trees, etc. Saves on water bills. Get yours now!

GOOD PROTECTION FOR YOUR GARDEN - TREES - LAWN - SHRUBS

New Mosquito Fumer

Now you can enjoy outdoor evenings, picnics, camping trips. Rid your yard of mosquitos, your outdoor terrace or fireplace. This novel container carries a lighter to ignite chemical which sends out fumes deadly to mosquitos. As if spraying, hold the can in your hand and direct fumes into shrubbery and other protected places. One fumer sufficient for one treatment of the average city lot. 3 fumers treat an acre. A single treatment kills all mosquitos present, affording several hours of comfort. Perfectly safe to use—no handling of chemical required. Complete directions on pkg. Each: 50c, 3 for \$1.35, postpaid.



GARDEN RABBIT REPELLENT

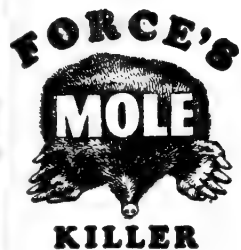
A dry, powdered material which keeps rabbits out of the garden. Scatter over surface of the soil and it will prevent their eating carrots, peas, etc. Non-poisonous, safe to use near cabbage, lettuce, etc. Goes a long way when used between the rows of vegetables. Effective in spite of rain. 1 lb. pkg., 55c, postpaid.



PROTECT Young Fruit Trees - Shrubs

"Peter Rabbit" Repellent protects trees and shrubs from rabbits and mice. A green paint-like non-poisonous material which can be painted or sprayed on trees and shrubs. Its bitter taste is offensive to rabbits. One application lasts throughout

winter. Quart treats 50 small trees.
1 pint, postpaid.....\$1.00
1 quart, postpaid.....1.65
1 gallon, by express, not postpaid.....4.50



KILLS MOLES in their holes!

No Traps—No Gas No Exposed Poison. Made in easy-to-use pellet form, from the moles natural food, but contains a poison deadly to moles—kills them in the ground where they live. To eradicate entire family of moles, place pellets in visible runways at 2 foot intervals. Moles readily seek these pellets, eat them and die. Treat new runways as they appear. 75 pellets for 50c, 185 pellets \$1.00, 875 pellets \$3.25, postpaid.



Kill moles or gophers with this "Gas" type cartridge. Simply light fuse—insert into holes or tunnels. Molite gas penetrates runways, brings quick death to rodents. 6 Molites for 80c, 12 for \$1.50, postpaid.



CYANOGLAS, ANT KILLER

Packed in special 4-oz. metal container equipped with spout for easy application. Simply shoot it into ant hills and no more ant trouble. Gets the ants at their source. Price: 40c, postpaid.

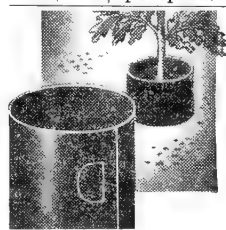


Cock Robin Bird Repellent

BIRDS WILL NOT ROOST WHERE COCK ROBIN IS USED!

When birds become pests, "COCK ROBIN" bird repellent will eliminate

the nuisance. This is a harmless, non-poisonous, time-tested formula which definitely repels birds from buildings, vines, bushes and trees. The novel cartridge package makes Cock Robin easy to apply—no dusting or spraying, just hang the cartridge as close to the affected area as possible. The birds will not stay. "Cock Robin" will not harm birds, it is non-poisonous, but it is an effective bird repellent, an "anti-roostant" for those vines on the porch or chimney—for your berry patch. Each: 75c, 3 for \$2.00, postpaid.



Cutworm Protector

Save your tomato and other plants this easy way. 12 for 15c.

DOG AND CAT CHASER



A stainless repellent with pleasant odor. Repels animals when sprayed on shrubs and bushes. Will not injure delicate plants. Use it on furniture, beds, etc., and dogs or cats will not lay on them. Protect garbage can or car. Non-poisonous, will not harm plants or animals. Price 50c, ppd.

"NO PUPS WANTED"



Female dogs make the best watch dogs and most gentle pets. They have cleaner habits than cause annoyance in attracting other dogs. LAG'S NO PUPS WANTED has a pleasant odor—is easily applied to female dogs when necessary, and other dogs will keep away. It is a semi-clear liquid—is harmless and will not stain the hair of white dogs. Price 50c, ppd.

DOES YOUR DOG Itch... Scratch?



DON'T BLAME FLEAS MANGE... DIET!

If your dog itches, scratches continually, it's probably not due to fleas, mange or diet. 2 to 1, it's FUNGITCH, grass-borne fungus infection long a puzzle to science. FUNGITCH starts as an itch followed by dandruff-like scales or sores with brownish edges and mouldy odor—or infection in ears, in paws, underbody, tail or eyes. May lead to most serious results—costly care—even total loss. Now a noted specialist's discovery—SULFADENE—applied externally, stops itching in minutes...clears up scales and sores in a few days. Generous treatment—only 98c.

Dr. MERRICK'S SULFADENE

NEW P.M.A.S. Kills Crab Grass!

(without Harming Lawn Grass)

Here's the new miracle crab grass killer described in recent magazines. SEL-TOX, a selective Crab Grass Killer (containing PMAS) is the latest step forward in the chemical control of Crab Grass...the most troublesome of lawn weeds. SEL-TOX not only kills but retards new Crab Grass growth. SEL-TOX can be used any time during the growing season—from "seedling" stage to "mature" growth without harming lawn grasses.



SEL-TOX is economical to use. The 16-oz. size makes 15 to 20 gallons and treats 1,500 to 2,000 square feet. Simply mix with water and apply with watering can or sprayer. (Complete directions on each bottle.)

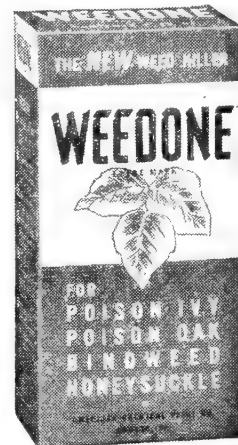
8 oz., \$1.00; 16 oz., \$1.50; one quart, \$2.50, postpaid.

The Original & most effective

2-4D WEED KILLER FOR LAWNS

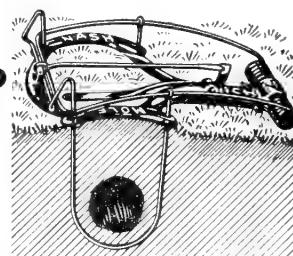
Kill Dandelion, Plantain, Poison Ivy, etc., without killing lawn grass!—and do it easily, safely, quickly and completely. Kill Bindweed or Canada Thistle without destroying grain or corn crops. (See page 74 for control of field weeds.) You've read about this remarkable 2-4D weed killer in magazines. Simply mix 1 part WEEDONE with 100 parts water and spray on weed foliage. It kills the weeds but not grasses. Not hazardous to livestock, pets, or wild life, does not sterilize soil, kills weeds down to root tips, not harmful to skin or sprayers.

6 oz. size, for 1000 sq. ft. (makes 5 gal. spray), postpaid 75c, quart size, for 5,000 sq. ft. (makes 25 gal. spray), postpaid \$2.50; gallon size, for 20,000 sq. ft. (makes 100 gal. spray), postpaid \$7.50, 5 gal. size, for 100,000 sq. ft. (makes 500 gal. spray), exp. ppd. \$25.00.



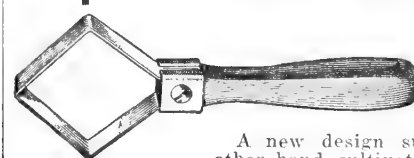
Nash Mole Trap

\$2.50 ppd



Recommended by U. S. Biological Survey. The Trap That Always Catches the Mole in All Kinds of Ground When Properly Set. Clods or stones cannot prevent perfect operation. Catches mole when it comes from either direction. Mole is caught around forward flippers. If properly set, it cannot fail. Satisfaction guaranteed. Full directions included also for preparing skins for market.

Superior Hand Weeder



75c

Each postpd.

A new design superior to other hand cultivators. Hardened steel blade with all edges sharpened. Bright orange plastic handle that's light weight, has good balance, easy to see, if misplaced.

— RELIABLE INSECTICIDES AND FUNGICIDES —

5% DDT KILLER DUST

An inexpensive and highly effective insect killing dust for use on Cabbage, Cauliflower, Broccoli, before heads form. Controls cabbage worm and other insects on any plants where disease control is not needed, and where dusted portions are not eaten. Recommended for thrip control on gladiolus bulbs—see page 43. Do not use on vine crops such as cucumbers, squash, melons. 1 lb. sifter canister 40c, 5 lb. bag \$1.50, postpaid.

ACME GARDEN DURA DUST



Newest combination insecticide and fungicide—contains DDT and copper.

Watch its quick effect on cabbage and cauliflower worms, also earworm on corn. Use it to protect onions, tomatoes, potatoes—also excellent on flowers for controlling Rose chafer, leaf hoppers and fungus diseases, though should not be used on melons and vine crops. Directions on each package. 1 lb. sifter top can, 50c; 4 lb. bag \$1.20, postpaid.

DURA DUST NO. 50

Contains 50% DDT



Prepare your own insecticide, spray or dusting powder for treating potatoes, fruit trees, vegetables (except vine crops), or making cattle dip—treating walls, kennels, etc. Product is soluble, can be blended down as directed on the package.

DDT is effective on leaf hoppers, flea beetles, Jap beetle, cabbage worms, potato bugs, thrip, Rose chafer, flies, mosquitoes, bedbugs, ants, fleas and lice. Price: 1 lb. carton 95c; 4 lb. bag \$2.50, postpaid.

NEW FRUIT TREE SPRAY

D. & P. Fruit Spray is a brand new "one-package" insecticide providing all the ingredients for a complete spray program on your fruit trees and berry plants (except dormant spray.) See page 30 for details.



PYROCIDE DUST NO. 10—The newest dust insecticide for control of squash and melon bugs—cabbage and cucumber beetles. Non-poisonous, yet powerful. Also effective control for aphids, beetles, leafhopper and chewing insects. 1 lb. 60c, ppd., 5 lbs. \$2.50, ppd.

PYRO-CUPER DUST

—A combination of Pyrocide, Lethane, and Copper to be used as a dust for controlling same garden insects as listed for pyrocide where the addition of a fungicide for blight control is also desired. New Pyro-Cuper is an excellent insecticide and fungicide combination for cabbage and melons. Price: 1 lb. can 70c, 5 lbs. \$3.00, ppd.

ROTENONE GARDEN SPRAY (NNOR)

—Makes available the tremendous killing power of rotenone in a more effective form than ever. Penetrates the hairy or waxy covering of insects to put rotenone in direct contact with the body, resulting in quick killing action. Kills most common garden insects of both sucking and chewing types. 1 oz. 40c, 6 ozs. \$1.10, ppd.



ROTENONE GARDEN GUARD—Non-poisonous. Recommended for dusting on cabbage, cauliflower, beans, etc. Also controls lice, fleas and mites on dogs, cats and chickens. Safe to use. 1-lb. sifter top can, 58c, postpaid.

TOBACCO DUST—Destroys rose slugs, lice, vine bugs, tomato worms, currant worms, cabbage lice. Apply when foliage is wet. Price: 1 lb. bag, 30c, ppd.



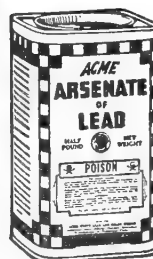
ACME RED RIVER POTATO MIX WITH DDT—DDT has been added to this outstanding product to make it better than ever. Now controls leaf hopper and psyllid as well as potato bugs, flea beetles and aphids. Controls early and late blight. Spray or dust. The all-around, economical potato mixture. 1 lb. bag 60c, 4 lb. bag \$1.85, ppd. to 3rd zone.

TOMATO DUST—A new dust product for controlling blight as well as insects preying on tomatoes. Also effective on leaf chewing insects and blight on potatoes, cucumbers, beans, cabbage, roses, asters, etc. New 1-lb. sifter-top cans: 60c, postpaid.

LIME SULPHUR—Dry powder for scale, blight, leaf curl, twig borer—also for summer spraying against soot, blotch, red spider and mite. 1 lb. 45c, ppd.; 5 lbs. \$1.70, ppd.

WETTABLE DUSTING SULPHUR

Keep your roses free from mildew, black spot, leaf spot and other hideous fungous diseases. Price: 2-lb. can, each 50c, prepaid.



ARSENATE OF LEAD

—Safest to use on tender foliage and sticks well on the leaves. Can be used as dust or spray. Price: 1 lb. 50c, prepaid; 4 lbs. \$1.50, ppd.

BORDEAUX MIXTURE

—Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. Price: 1 lb. 45c, prepaid; 4 lbs. \$1.20, ppd.

CALCIUM ARSENATE—Very effective in controlling certain chewing insects. Recommended on hardy foliage of potatoes and certain vegetables. 4-lb. bag, 75c, postpaid.

ROOT MAGGOT DESTROYER—Page 16

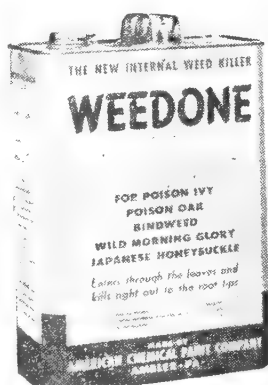
— SPRAYERS AND DUSTERS —

2-4D FORMULAS FOR GRAIN FIELDS & PASTURES

FOR LAWN FORMULA
See page 73

Two New CONCENTRATES of the original 2-4D WEED KILLER

Kill Bindweed, Thistles and other weeds in grain or corn fields—without damage to the crop! Kill pasture weeds without killing grass! Even when wet fields prevent cultivating, you can destroy weeds easily, safely, cheaply. Simply mix with water and spray on foliage. But insist on the original and most effective 2-4D formulas described under the trade name "WEEDONE" in magazine articles. Accept no substitutes! Ask for leaflet.



WEEDONE Concentrate 48: An ethyl ester formula containing 3 pounds 2-4D acid per gallon. Most effective for hard to kill weeds in pastures, roadsides, ditches. Gallon (treats up to 24 acres) \$10.90, postpaid, 5 gals. \$53.50, express prepaid.

WEEDAR 64: An alkanolamine salt formula containing 4 pounds 2-4D acid per gallon. For control of weeds in grain, flax or corn fields. Gallon (treats up to 30 acres) \$9.25, postpaid, 5 gals. \$45.00, express prepaid.



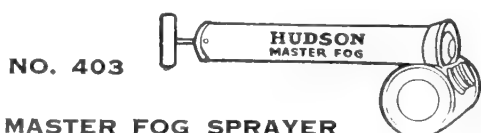
NO. 766 ADMIRAL DUSTER ↑

Applies insecticide in fine dust or heavy cloud. Powder can't enter pump chamber. 24-inch extension has adjustable nozzle for straight or angle discharge. Ideal over-and-under-leaf coverage. \$1.50, prepaid.



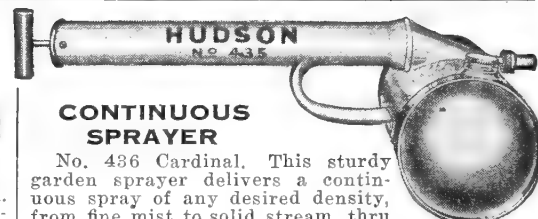
NO. 666 MAJOR DUSTER for Cyanogas

This inexpensive duster can be used for Cyanogas and should last several seasons. With two 12-in. extensions, two nozzles and 12-inch heavy rubber hose extension for proper Cyanogas application. \$1.60, prepaid.



MASTER FOG SPRAYER

Designed for large scale application of Fly Oils, Insecticides, Moth Sprays, Fungicides. Full quart capacity. Almost vertical operation possible. Each 65c, prepaid.



CONTINUOUS SPRAYER

No. 436 Cardinal. This sturdy garden sprayer delivers a continuous spray of any desired density, from fine mist to solid stream, thru adjustable nozzle. Ideal for insecticides, disinfectants, fly sprays. 3 qt. galvanized steel tank.

\$1.85 ppd.

COMPRESSED AIR SPRAYERS

NO. 192 LEADER

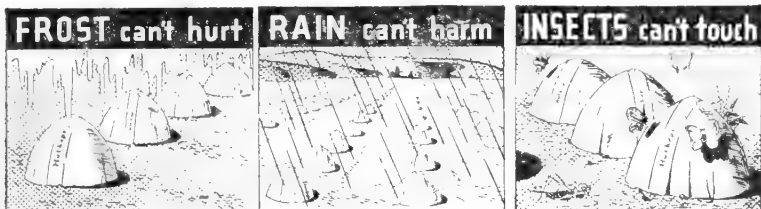
Has 3½ gallon funnel-top galvanized steel tank with malleable screw cap. Automatic shut-off valve can be locked open for continuous spraying. Suitable for spraying garden, dairy, poultry and hog houses. Each \$7.75, by express, not prepaid.

NO. 235 CLIMAX

Has 3½ gallon open-top galvanized steel tank, for easy filling and cleaning. Air-pak plunger, Perfection automatic air valve, high pressure tank adapts it for any job in garden, orchard, poultry house, dairy barn, or for weed control. Each \$8.50, by express, not prepaid.



Hotkaps Protect Your Garden!

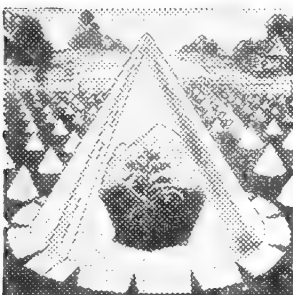


HOTKAPS are waxed paper cones, easily set out over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain a perfect mulch. Yield is increased and hastened. Flowers and vegetables mature two to three weeks earlier.

"HOME PACKAGE" HOTKAPS

	Prepaid to 3rd Zone	Not Prepaid
25 Hotkaps and cardboard setter.....	\$0.80	\$0.70
100 Hotkaps with fibre-board setter.....	2.85	2.75
250 Hotkaps with fibre-board setter.....	5.00	4.65

HOTKAPS ONLY:	
Steel Hotkap Setter, \$1.75, prepaid.	
Fibre-board Garden Setter, each	500 Hotkaps.. \$ 8.50
20c. prepaid.	
Weights: 100 Hotkaps, 5 lbs.;	1,000 Hotkaps.. 14.50
250, 10 lbs.;	1,000, 33 lbs.
	13.50



Paxton Hot Houses

Here is crop insurance every grower needs. Hot Houses force growth of plants to bring them on the market two to four weeks earlier than normally. Early crops bring the greatest return.

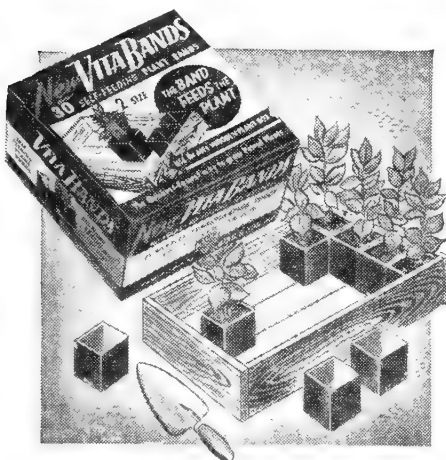
Hot Houses are new, improved, strong, sturdy, and wire reinforced to withstand extremes of weather. They allow maximum growth. Size 12 inches in diameter and 11 inches in height. Temperature inside of Hot Houses is from 10 to 20 degrees warmer than outside and heat is retained for a long period after outside temperature lowers.

Faster Setting—One man can set 300 to 350 per hour. Get special folder and instructions for setting. Order early.

Packed 25 per carton (with cardboard setter) for 80c. Hot Houses only: 100 for \$2.35, 250 for \$5.00, ppd. Not prepaid: 500 for \$8.00, 1,000 for \$15.00. Metal Setter \$2.25. (Wt. 40 lbs. per 1,000.)

2 TO 4 WEEKS EARLIER TO THE MARKET AND TOP PRICES FOR YOUR PRODUCTS—

\$2.35, 250 for \$5.00, ppd. Not prepaid: 500 for \$8.00, 1,000 for \$15.00. Metal Setter \$2.25. (Wt. 40 lbs. per 1,000.)



Nutrient Treated Plant Bands

These square, open-bottom, plant bands are ideal for growing potted plants. They can be used in any shallow wooden box or greenhouse flat. Made of waterproof, mold-resistant fibre, compatible to plant growth, and treated with plant food to insure vigorous, well balanced growth. No locks, no folding, no assembly—ready with a single squeeze!

Pkg. of 30 Bands 2" square, 2½" high, 35c, postpaid; 33 pkgs. (about 1,000 bands, weight 40 lbs.) for \$4.95, not ppd.

Neponset Flower Pots

Adapted for growing, transplanting or shipping. Made of tough, waterproof green paper, eliminating breakage. Permits speed in handling and more economical than clay pots. Used by the best gardeners everywhere. The green pots are somewhat heavier for frequent handling. Weight 4 in., 52 lbs. per 1000.

NEPONSET GREEN POTS			
	25	100	1,000
PRICES:	Prepaid	Prepaid	Not Prepaid
3 -inch, green..	\$0.50	\$1.65	\$12.00
4 -inch, green..	.70	2.45	19.00

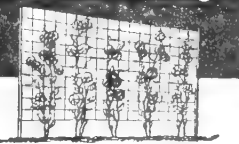
NEPONSET RED POTS
Not quite as heavy as the green—will stand up under reasonable moisture for several weeks. Used extensively for transplanting and shipping. Reinforced disc in bottom.

	25	100	1,000	Weight
PRICES:	Prepaid	Prepaid	Not Prepaid	Per 1,000
3 -inch, red.....	\$0.40	\$1.10	\$6.85	25 lbs.
4 -inch, red.....	.45	1.50	10.40	42 lbs.



TRAIN-ETTS

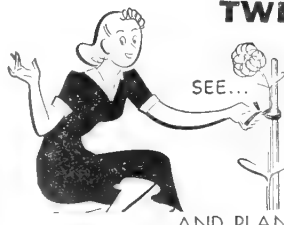
New Weatherized TRELLIS NETTING



PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes; no fuss or bother. Use instead of string or wire. (Wire in sun burns delicate tendrils.) Doesn't rot like string—lasts several seasons. In 3 sizes, No. 1, 60x72 in. 65c; No. 2, 60x96 in. 85c; No. 3, 60x180 in., \$1.25. Postpaid.

TWIST 'EMS



SEE... JUST A SIMPLE TWIST OF THE WRIST AND PLANT IS TIED!



Twist ends between finger and thumb



In a "flash" stem is securely tied

Strong, dark green tapes with wire reinforcing—the perfect plant-tie for plants, vines, shrubs, 7-inch size only: 250 for 60c, 500 for \$1.00, 1,000 for \$1.75, postpaid.

Utility Twist 'Ems, 16-inch size, for bunching asparagus and other vegetables or for tying grape vines: 250 for \$1.00, 500 for \$1.85, 1,000 for \$3.50 postpaid.

Home pkg.
125 Ties
(8 inch)
35c

Lynchburg Automatic Transplanter

A practical tool for transplanting Tomato Plants, Cabbage, Cauliflower, Pepper, Eggplant, Sweet Potato and Tobacco Plants. (Not recommended for Strawberry Plants.) Each plant is set, watered and covered in one operation, without bruising or damaging the plants, without stooping or lame backs. Cuts labor to one-third. Enables one man to set 8,000 to 10,000 plants per day. The roots of each plant are put into the ground in a natural position, and firmly set by the absorption of water into the ground. This is "Nature's Own Way." Transplanting losses are reduced to the minimum. The tiny roots are sucked into the ground almost as though they grew there, and the plants take hold and start to grow at once, especially if Boost'Em Plant Starter is used in the water reservoir—the easiest way to apply starter solution.

All wearing parts are easily removed and replaced. Thousands in use. Can be operated with either right or left hand. Guaranteed for one year against faulty workmanship or defective materials. Price: \$4.85 postpaid, to third zone (300 miles).



Makes Things Grow!
For Gardens, Lawns, Shrubs, Plants, Trees.

A single application makes grass and vegetables grow vigorously and flowers and shrubbery beautiful with bloom and foliage. Quick results, easy to apply, only a small quantity required, no offensive odor. Used for years on lawns of fine homes—on golf courses—in private gardens—hot-houses—and nurseries of florists and commercial growers.

Ten lbs. is sufficient to fertilize plot of lawn 20x25 ft.; 25 lbs. will cover plot 30x40 ft. (Use 2 to 4 lbs. per 100 sq. ft.)

Price: 5-lb. pkg. 45c (postage to 3rd zone 20c extra), 10-lb. pkg. 80c (postage to 3rd zone 30c extra). By exp. or freight, not ppd.: 25-lb. bag \$1.45, 50-lb. bag \$2.50, 100-lb. bag \$4.00.



"HI-HUMUS" PEAT MOSS

For Better Gardens and Lawns

If you have trouble with your lawn, if your soil is light and sandy, or if it bakes hard because of clay, our Minnesota Brown Neutral Peat will come to the rescue.

A two-inch mulch of peat on top the soil around the plant prevents killing of roots during both winter and summer. Holds moisture, reduces weeding.

Two ounces of Moss Peat can absorb 1 lb. of water. Use it around roses, shrubs, perennials, your window boxes, ferns and potted plants. One bag (about 3 bu.) will top dress about 400 to 500 square feet of soil. Inexpensive to use. Contains life-giving humus and nitrogen essential to plant growth—and is free from silt and weed seeds. Top-dress your lawn early in May. On heavy clay soil, work it in to a depth of 6 inches. Prices: Peck (about 5 lbs.) 75c, ½ bu. (about 10 lbs.) \$1.25, postpaid to 3rd zone. Not prepaid: 1 bag (3 bu., 50 to 60 lbs.) \$2.50, f. o. b. Northern Iowa Warehouse.

Newest Miracle-Working Chemicals and Garden Aids

TRANSPLANTONE



Amazing new HORMONE-Vitamin stimulant "does things" to more plants than B1 alone! Mix with water—apply to soil. Makes better lawn turf, plants, tree and seedling roots. Unbelievable results transplanting VEGETABLES—tomatoes start quickly—no wilting or setback. 50% more yield reported. 1 oz. makes 10 gallons transplant solution or 1,000 gals., watering solution. Free folder on request. 1/2-oz. pkt., postpaid, 25c. 3-oz. can, postpaid, \$1.00. 1-lb. can, \$4.00 ppd.

ROOTONE



Hormone Wonder Powder for seeds, cuttings, bulbs. Luxurious lawns. 2 weeks earlier—bigger, earlier flowers, garden crops! Seeds dusted with Rootone germinate faster, root deeper, make stronger, healthier seedlings. Cuttings dipped in Rootone speedily develop surprising roots. Free booklet on request. Trial pkg. 25c. 2-oz. jar (treats 20 lbs. lawn seed) \$1.00. Pound \$5.00, ppd.

FRUITONE



The Hormone Spray—stops pre-harvest drop of apples and fruits—hastens maturity and increases set. Will keep leaves and berries on shrubs and trees longer, and insures better setting of fruit. Aids pollination of flowers—keeps needles from falling off Christmas trees, or berries from holly wreaths.

Full directions with each package—be sure to try this modern miracle. Trial pkt. 25c.

2-oz. can makes 25 gals. spray, \$1.00. 12-oz. can makes 150 gals. spray, \$5.00.



MAGIC GREEN FINGERS

Pkg. of 24 for 25c ppd.

Simply push Magic Green Finger into soil of potted plants, window box, or garden plants—and watch improved growth and beauty! Easiest way to apply plant food and Vitamin B1. Each Green Finger provides an average plant with stimulant for one month! Attractive, colorful pkg. of 24 Green Fingers, 25c ppd.



Makes your Cut Flowers Live Longer

Retards wilting—keeps color and fragrance much longer even in steam-heated rooms. No need to change water or recut stems. Liberal package 3 pkts. 25c ppd. 10c

Try Organic Gardening

with VITALOAM



Now you can grow really BIG vegetables, fruits, flowers with this amazing organic soil conditioner for everything that grows—house plants, garden crops, trees, shrubs. Grows grass under trees. It's easy to use—just mix into soil. Only one treatment for entire growing season.

Cannot burn tenderest roots. Used by professional growers in 48 states. Vitaloam is a tremendously condensed humus preparation containing a bacterial culture that continues improving soil, while the enriched soil grows the crop. Positively not a commercial fertilizer. This soft, velvety material improves soil texture, has 800% moisture capacity, high in Ph. balance, billions of beneficial soil bacteria produce greener, healthier plants, with fruits of finer flavor, greater health value. A new thrill in gardening! 3-lb. can postpaid \$1.10, 25-lb. can by express not prepaid \$3.50, 50-lb. can by express or freight not prepaid \$6.00.

Make Your Own FERTILIZER

from Grass Clippings, Leaves, Garbage and Other Waste Materials



ACTIVE makes rich fertilizer humus easily, quickly, cheaply from kitchen waste, sawdust, garden rubbish, etc., at a few cents cost. Also stretches commercial fertilizer—makes it go six times farther. It activates potting and garden soil. Reduces odors in outdoor toilets, making rich, easily handled garden humus. Active (an organic composition) transforms waste materials into valuable fertilizer by bacterial action. Does not kill earthworms or beneficial soil organisms, as do chemical compost hasteners. Just sprinkle on compost pile—it speeds decomposition, makes rich, odorless humus that builds up soil, without strong chemicals. No. 1 size (for 100 lbs. compost), ppd. 40c. No. 2 size (for 450 lbs. compost) ppd. \$1.00. No. 7 size (for 1,800 lbs. compost) ppd. \$2.35. No. 25 size (for 3 1/2 tons compost), not ppd. \$6.50

door toilets, making rich, easily handled garden humus. Active (an organic composition) transforms waste materials into valuable fertilizer by bacterial action. Does not kill earthworms or beneficial soil organisms, as do chemical compost hasteners. Just sprinkle on compost pile—it speeds decomposition, makes rich, odorless humus that builds up soil, without strong chemicals. No. 1 size (for 100 lbs. compost), ppd. 40c. No. 2 size (for 450 lbs. compost) ppd. \$1.00. No. 7 size (for 1,800 lbs. compost) ppd. \$2.35. No. 25 size (for 3 1/2 tons compost), not ppd. \$6.50

VERMICULITE

Famous MICA-GRO Brand



The wonder garden aid described in magazines. The perfect growing medium that starts seeds and cuttings faster, grows them bigger, stronger, with up to 100% stand and phenomenal root growth. Holds many times its weight in water plus oxygen. Prevents drowning, "damping off" and other diseases. It's sterilized—it cannot rot. A featherweight soil for seedling flats, an ideal insulated garden mulch, ventilates heavy clay soil, ideal for forcing winter blooming bulbs, or starting garden seeds early. 1/2 pk. postpaid 75c, 2 cubic ft. bag by exp. not ppd. \$1.85.

TREAT VEGETABLE AND FLOWER SEEDS



New ARASAN is the most modern disinfectant for all garden seeds. In actual tests, untreated seeds that produced a 64% stand, showed 83% stand after dusting with Arasan! Nearly 30% increase—it pays! Non-irritating, easy to apply. 1-oz. pkt. postpaid 16c, 8-oz. can postpaid 85c.



BOOST 'EM Starter Solution

This remarkable formula increased tomato yields 4 tons per acre at Purdue University—boosted potato yields by 100 bu. per acre at U. of Maine. For CABBAGE, TOMATO, MELONS, PEPPERS, EGG PLANT, etc., dissolve 1/2 lb. BOOST 'EM in 5 to 8 gals. water, apply 1/2 cup solution per plant when transplanting. Results are remarkable!

Apply solution direct to garden seed when planted—again at blossom or fruiting stage.

Advantages of Boost 'em Starter Solution:

1. Reduces transplanting shock, plants resume growth earlier, fewer plants to replace.
2. Earlier harvest, greater yield and better quality.
3. Longer bearing period.
4. Instantly soluble, cheap—easy to apply.

Other profitable uses: apply direct to garden crops such as beans, peas, sweet corn, for mid-season boost. A splendid liquid fertilizer for house plants, shrubs, perennials.

3 oz. (for 2 to 3 gals. solution) postpaid, 25c. 1 1/2 lbs. (for 20 to 25 gals.), postpaid, \$1.00. 10-lb. can, postpaid, \$4.00.

25 lbs. (freight or exp. not prepaid), \$7.00. 50 lbs. (freight or exp. not prepaid), \$11.00.



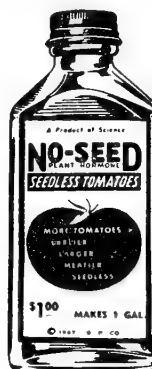
BAR-SPROUT

Prevents POTATO SPROUTING in storage

Now you can store your home-grown potatoes for 12 months without sprouting or shrinking! Cold storage not necessary. BAR-SPROUT actually improves cooking and eating quality, also appearance. Saves 15% in shrinkage. Controls sprouting of carrots, turnips, rutabagas in storage. Absolutely harmless (see page 71).

Just dust tubers with sifter can. 12-oz. sifter can (treats 8 bu.), postpaid \$1.00, 5-lb. can (treats 55 bu.) postpaid \$5.75.

GROW SEEDLESS TOMATOES!



Grow Earlier, Larger, Sweeter, and More Tomatoes on each plant with "NO-SEED," an approved plant hormone that's easy to use. Just mix with water and spray newly opened blossoms. "NO-SEED" induces artificial setting of fruit, prevents falling of first blossoms, gives ripe tomatoes 2 to 4 weeks earlier. Treated plants produce larger, firmer, meatier fruits, without seeds. Grow seedless peppers, egg plant, cukes, squash. Tested by U.S.D.A., leading Universities, Colorado Experiment Station. 2-oz. bottle (for 1/2 gal. spray) ppd. 65c, 4-oz. bottle (for 1 gal. spray) ppd. \$1.00, pint (makes 4 gals. spray) ppd. \$2.60.



Jungle Tested INSECT REPELLENT

FAMOUS 6-12 FORMULA

The famous formula the Army used in South Pacific. Mosquitoes, biting flies, gnats, fleas, chiggers will stay away with a few drops applied to hands and face. TIME magazine says: "Formula 6-12 is reported to be six times as effective as 100% citronella." 2-oz. bottle 55c, two bottles for \$1.00, postpaid.

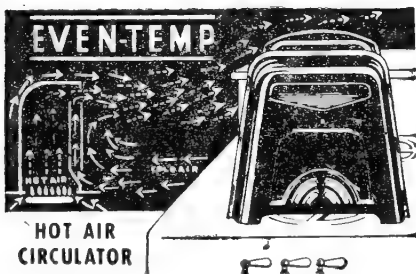
Improved Han-D Sprayer

A new, greatly improved all purpose quart sprayer for home, farm or garden. Sprays LIQUID or POWDER insecticides (like Lead Arsenate, Bordeaux, Lime). Ideal for DDT in barn and poultry house. A simple squeezing pressure of one hand sends powerful, soaking, fan shaped spray—up, down, sideways, or under leaves. Made of non-rusting zinc alloy, machined brass and stainless steel. Chemical resistant hose. Built to last for years. Each: \$2.95, ppd.

INSECT BOMB with DDT!



The famous DDT dispenser used by U. S. Army. Safely dispenses DDT with freon gas, which spreads to all corners of room. Only 4 seconds spray required for average room. Kills flies, mosquitoes, moths, roaches, etc. Release fog in middle of room—it penetrates cracks and crevices. A room 11x15x9 feet can be sprayed approximately 150 times before dispenser is empty. Each: \$2.95, postpaid.



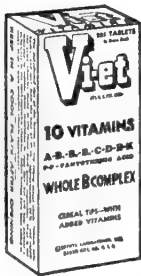
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A surprising heat broadcaster, warms kitchen, bathroom, basement, garage quickly, at low cost. Just set EVENTEMP over open flame of gas, range or oil stove—every corner of kitchen gets instant, even heat. No sweating walls and ceiling—no cold floors. Twice the heat with one-fourth the gas! Works on any open flame burner—no connections or piping needed. Price: \$2.95 each, postpaid.

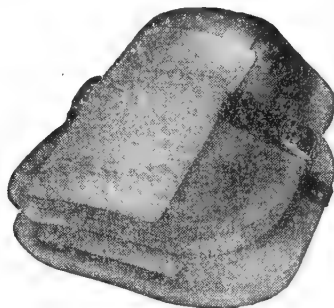
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GRASS Newest Food! for Man!

The amazing new product recent magazines describe. Scientists found certain grass leaves properly processed, contained ALL known VITAMINS essential to human diet. NOW in one tablet: Vitamins A, B1, B6, C, D, E, G, K! This invaluable food helps prevent colds, constipation—builds health. A necessity for some—protection for all. FREE, detailed folder. Supplies vitamins, without calories, to those on reducing diets. 225 Vi-et tablets (month's supply), ppd., \$1.50.



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In greenhouses, clay pot walls are always damp. Without the Mystic Mat the dry air of heated houses dries out the pot walls, damaging root ends and setting back the plant.

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We sell dependable, carefully tested seeds. Should failure result from the fault of the seeds we will refund your money.

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Free flower seed novelties in exchange.

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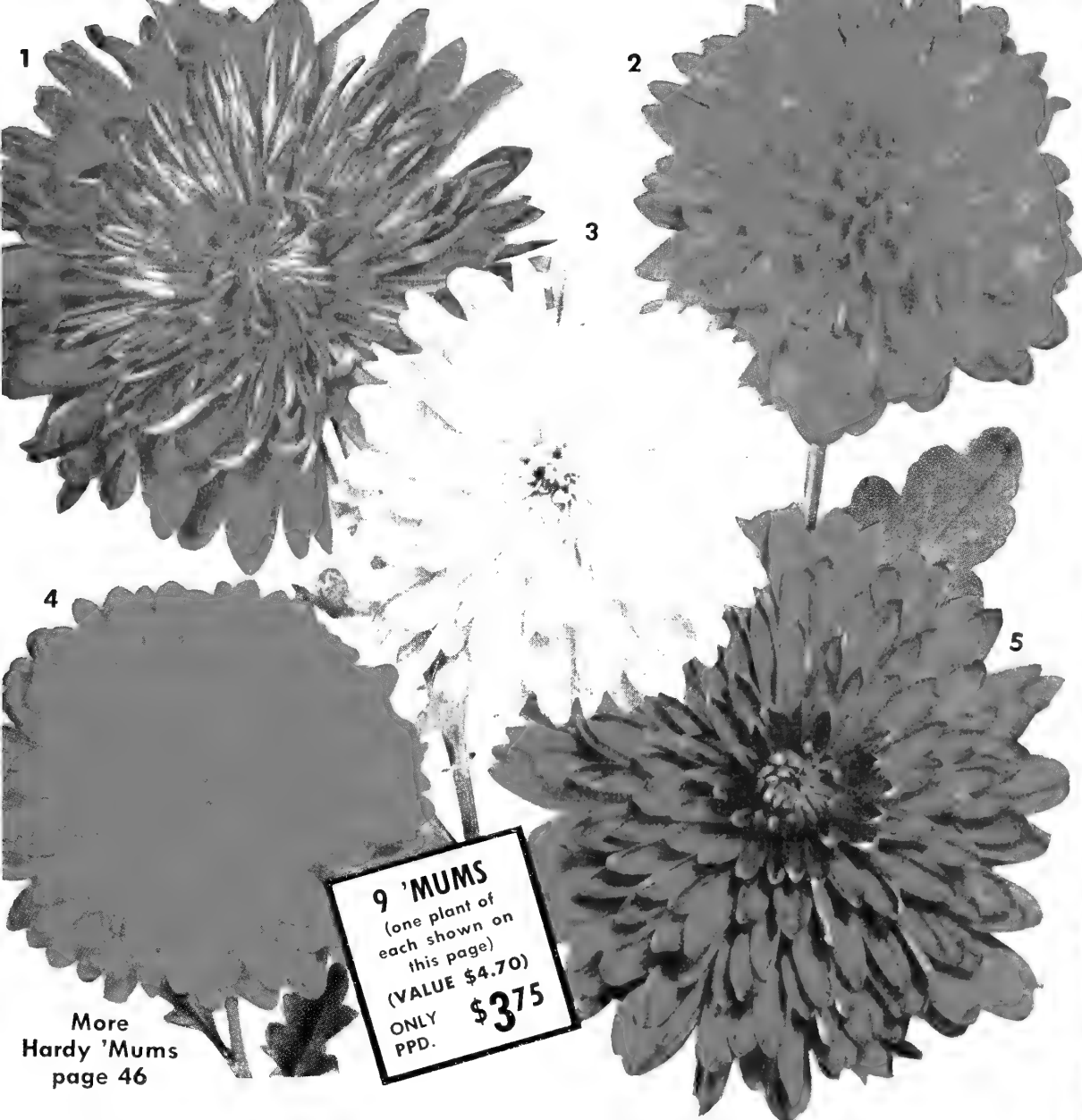
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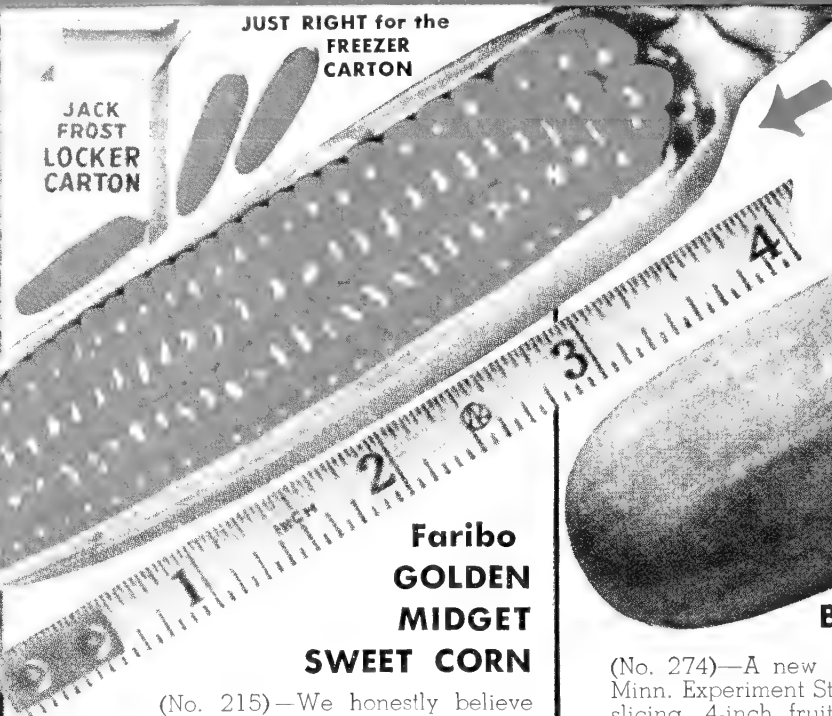
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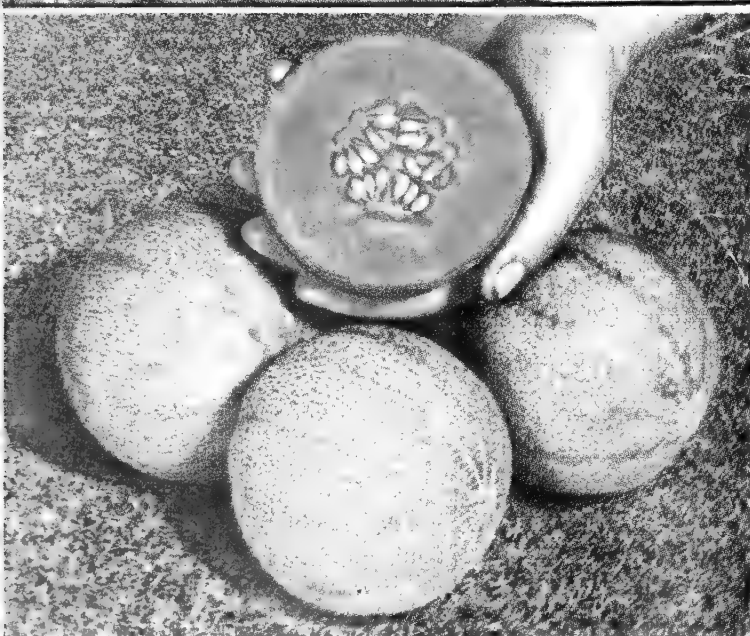
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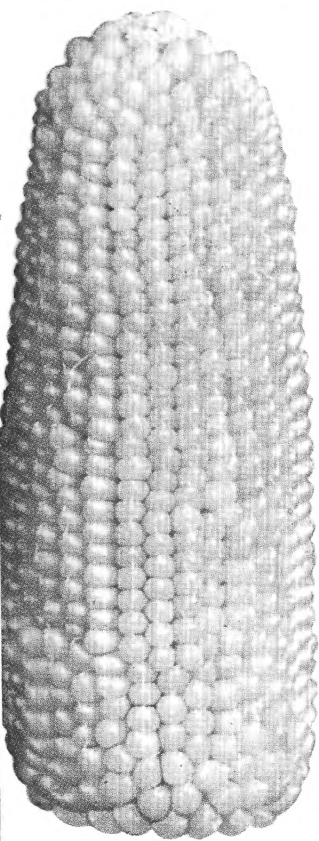
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MINHYBRID POP CORN

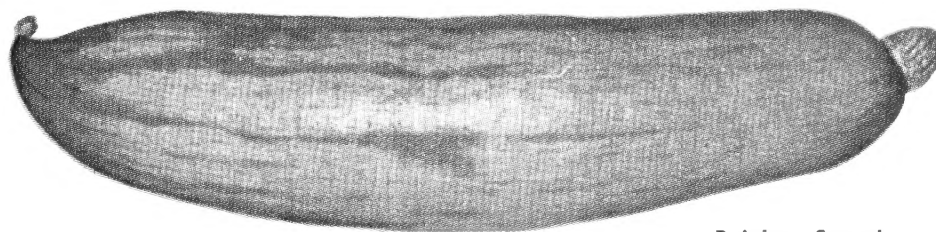
(No. 250)—The last word in Pop Corn. Developed by the Minnesota Experiment Station, it far surpasses the old hullless varieties. Records show a 16% greater yield per acre, and a 29% greater popping volume. Hybrid Hullless is the finest white hullless Pop Corn obtainable from a standpoint of quality, flavor and tenderness. Certified seed.

Pkt. 10c, ¼ lb. 20¢, ½ lb. 35¢, lb. 60¢, ppd.

NEW RAINBOW SQUASH

(No. 623)—The new "Family Size" Squash developed by Dr. Hutchins at U. of Minn. Attractive, colorful fruits weigh 3 to 4 pounds just right for serving the average family. Even folks who do not care for squash, like the flavor of Rainbow! Delicious baked or boiled, fine for canning or pies. Flesh is dry, fine grained, not stringy. The thin-shelled, 15-inch fruits mature in 95 days. An excellent winter keeper.

Pkt. 15¢, oz. 35¢, ¼ lb. \$1.00, ppd.

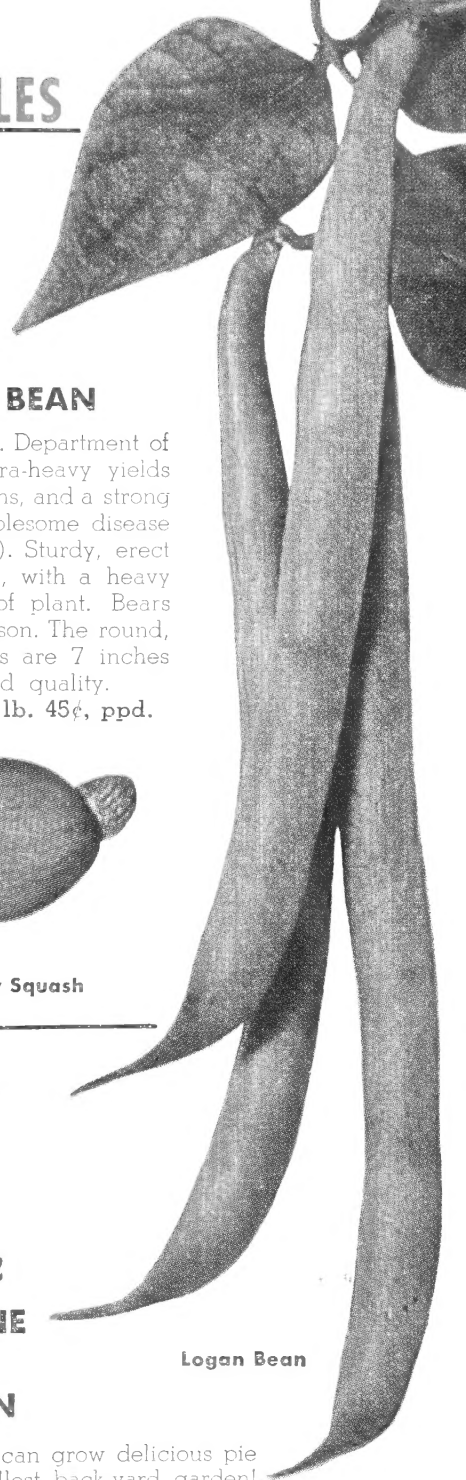


Rainbow Squash

NEW LOGAN BEAN

(No. 13)—Developed by U.S. Department of Agriculture. Tests show extra-heavy yields even under adverse conditions, and a strong resistance to mosaic (a troublesome disease causing mottled appearance). Sturdy, erect plants grow 16 inches high, with a heavy setting of pods in center of plant. Bears continuously over a long season. The round, stringless, fleshy green pods are 7 inches long and of unusually good quality.

Big Pkt. 10c, ½ lb. 30¢, lb. 45¢, ppd.



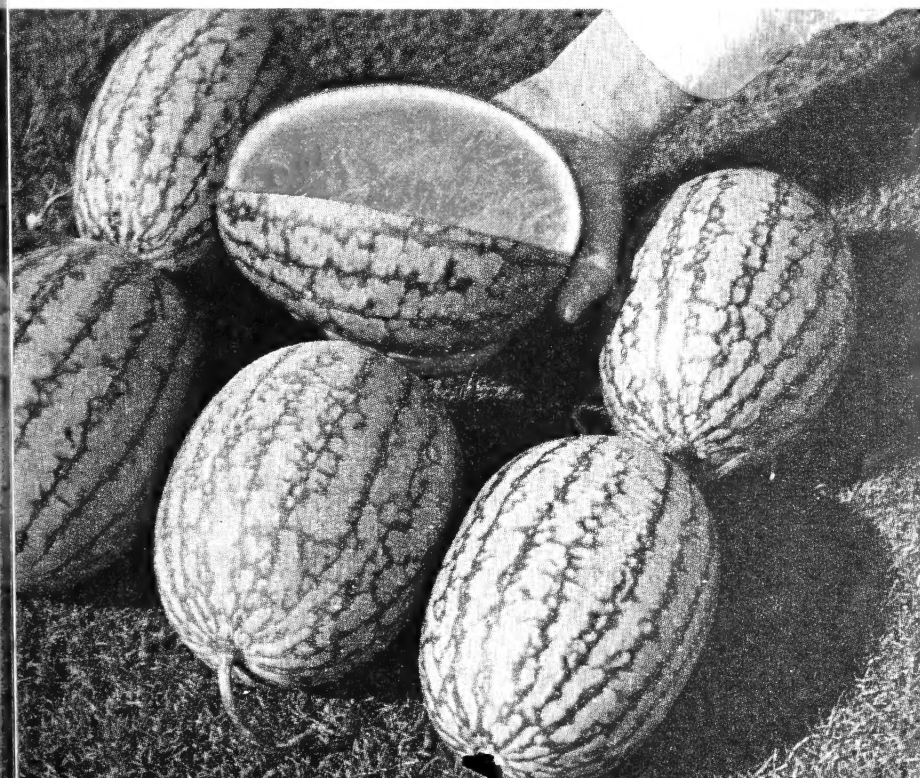
Logan Bean

More MIDGETS for the Small Garden

Improved NEW HAMPSHIRE MIDGET WATERMELON

(No. 879)—A unique new Watermelon ideal for the small family garden and especially valuable in northern sections as it matures extremely early. Most early melons lack real quality, but here's where Improved New Hampshire excels. Our stock is the result of 2 years selection from Dr. Yaeger's improved strain developed at New Hampshire Experiment Station. Fruits are 7 to 8 inches long, just right for individual serving, and fit easily in the refrigerator. Our strain has fewer seeds, practically no rind, rich red flesh that's crisp and juicy with extra-high sugar content. It's easy to grow, requires little space—be sure to try it! Seed is scarce. Pkt. 25¢, 5 pkts. for \$1.00, ppd.

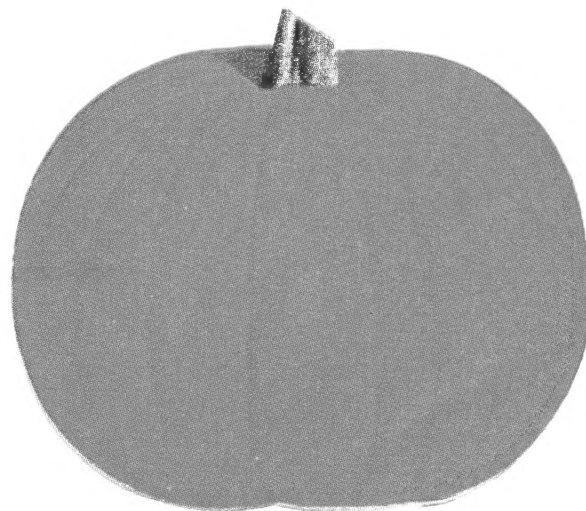
New Hampshire Midget Watermelon



New CHEYENNE BUSH PUMPKIN

(No. 543)—Now you can grow delicious pie pumpkins in the smallest back-yard garden! This compact, bush-type plant measures 3 to 4 feet across, about 30 inches high, is surprisingly ornamental and produces an amazing number of brilliant orange fruits close to the crown. Fruits are "Sugar Pie" type, with deep golden flesh—no trace of stringiness. Splendid for canning and makes delicious pies.

Pkt. 15¢, oz. 23¢, ¼ lb. 75¢ ppd.



Cheyenne Bush Pumpkin



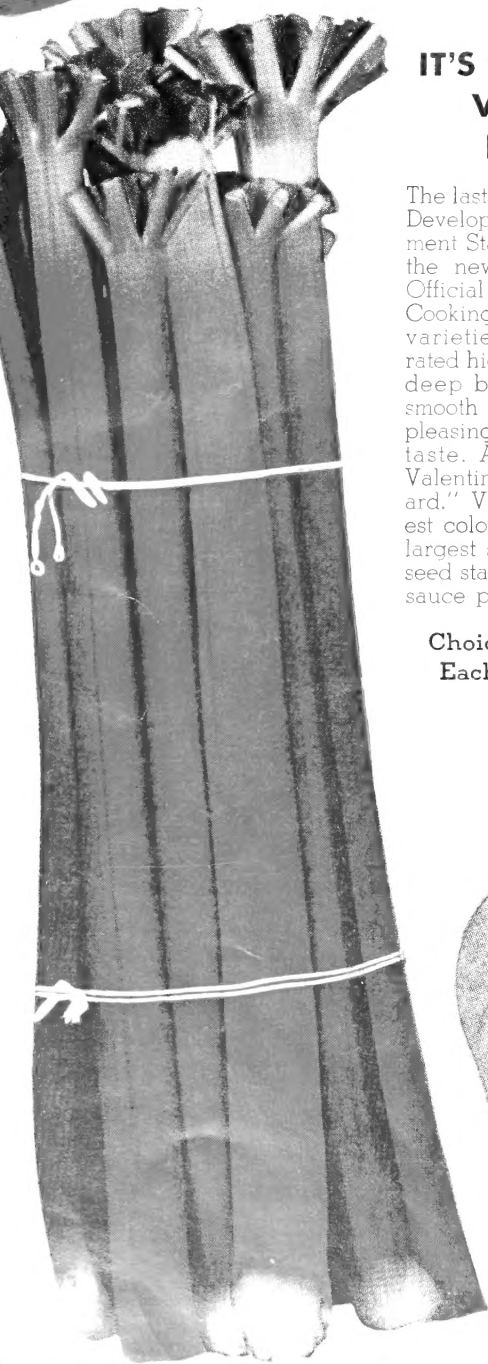
Streamliner

NEW JUMBO EVERBEARING STRAWBERRY

Here's the big new strawberry you can enjoy without sugar! Nothing finer for serving fresh, or in shortcake, or for canning. Perfect for quick freezing. Authorities agree that these large, glossy red, uniform sized fruits have the finest quality of all strawberries. Plant your patch this spring—it will start to bear in 60 to 90 days, and you'll have berries until heavy frost. Next year you'll have fruit spring, summer and fall. Streamliner has everything; fine flavor, large size, good color, heavy yield, self pollenizing. A quart of berries has been picked from a single plant—the ideal everbearer for your garden!

25 plants \$2.50, 50 for \$4.25, 100 for \$7.25,
250 for \$14.50, 500 for \$22.50 Ppd.

STREAMLINER



IT'S BRAND NEW! VALENTINE RHUBARB

The last word in fine rhubarb. Developed by Ontario Experiment Station, Canada. Best of the new "all-red" varieties. Official report on Canadian Cooking Tests of 25 leading varieties: "Valentine sauce rated highest. Color: an even, deep bright red, Texture: smooth and tender. Flavor: pleasing with slightly tart after taste. All testers accorded Valentine the highest standard." Valentine has the richest color, the best flavor, the largest stalks, and the fewest seed stalks, of all the new red sauce producers.

Choice Roots (scarce):
Each \$1.75 postpaid.

New Sequoia SEED POTATO EYES

Bug and Blight Resistant!

Highest Yields in University Farm Tests

Now—you can grow potatoes without continual spraying! Bugs just don't relish Sequoia vines. Also resistant to late blight! A late maturing potato developed by U.S.D.A. Very high yields, even under drought conditions. Finest cooking quality. Plant them a little heavier than other varieties for best quality tubers.

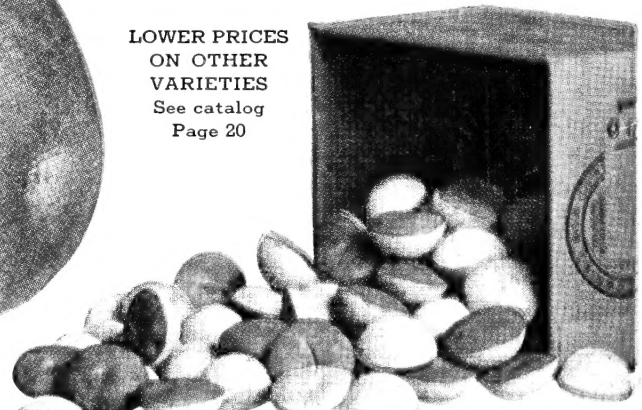
ABOUT SEED POTATO EYES

Grow the newest varieties,—get your seed by mail postpaid! Avoid freight charges—avoid cutting, treating, drying seed pieces. SEED POTATO EYES are sent parcel post at planting time—guaranteed to arrive in good condition. Scientifically cut from Certified Stock to provide adequate tuber portion with each eye. Specially treated and packed to keep fresh until suitable planting weather. Enormous yields reported! For "bumper" crops use BOOST'EM Starter Solution, page 27.

CERTIFIED SEQUOIA SEED POTATO EYES
100 for \$1.85, 200 for \$3.50, 500 for \$7.95 postpaid



LOWER PRICES
ON OTHER
VARIETIES
See catalog
Page 20



**FARMER SEED & NURSERY CO. FARIBAULT
MINNESOTA**